

SEQUENCE LISTING

<110> Salceda, Susana
 Macina, Roberto
 Hu, Ping
 Recipon, Herve
 Karra, Kalpana
 Cafferkey, Robert
 Sun, Yongming
 Liu, Chenghua

<120> Compositions and Methods Relating to Breast Specific Genes and Proteins

<130> DEX-0312

<150> 60/268,999

<151> 2001-02-15

<160> 210

<170> PatentIn version 3.1

<210> 1

<211> 357

<212> DNA

<213> Homo sapien

<400> 1

```

cgggccggca gtatgatgga tcggccgccc gggcaggtac agctgggtccc actcctctct 60
ggtgaagtcc acggccacga tcctgaaacg tcagtgattc ctgagatctc accatctgtg 120
agccatcatt catttcttcc tcctccatgt tcccctcctg agaaaaaaca gcattctgag 180
aaggcataac ttcttttttg agtctctcga ttcagtcttc cactgggatt acacctctct 240
gcagttctta tgttgtaatg tcgccaagc tctgctatct tctacatgaa agtcagcaga 300
tgcaccagga ccagcagctt aaggagctgg ggctgctctt gaaagttgat gtccagt 357

```

<210> 2

<211> 2152

<212> DNA

<213> Homo sapien

<400> 2

```

agcggagcgt cttgcgccgc cattgcgggg aggcgtgcct cagagcaggt ctggcgcgcc 60
ggtggctgga cgggccccag gagcccagtc accgggcgtc attggctcag gctgcggggc 120
cctcggcacc ttctccctcc cgggtccacc gcggcggcgg cggcggcggc ggcggcgacg 180
gcggcggcgt caggtggcgg agcctgccga agcgcccttt gtctgcggag gtcaacatac 240
ctggcctaag gaggcaggat tgagtgactc tcaactacca ctgggtgttc tctttgaaag 300
tggcgcttgg caccagcatg aactccccat cctcagcaat cccatcaggt gttttgggtc 360
ttcaacctaa aattctatct tacaagatcc ttgccaggat gcagatttga atactatagt 420
gaagtctgta catgaagaaa tgatgctttt agggaggaaa aaacaacaag gtaataacaa 480

```

10078090-031402

ccttcaagag ccccttcac tcaactcggc ataaacaagg caagattctg agagtggccg 540
 cccttgaag cagaaattat tctgtgtggc tatccatgtg gctcctgagg ctctaatcag 600
 agatggggca ccttttagtac caggggagtg actgttgccc ataagggtact ggacatcaac 660
 tttcaagagc agccccagct ccttaagctg ctgggtcctgg tgcattctgct gactttcatg 720
 tagaaagata gcagaagctt gtggcgacat tacaacataa gaactgcaga gaggtgtaat 780
 ccagtggaag gactgaatcg agagactcaa aaaggaagtt atgccttctc agaatgctgt 840
 tttttctcag gaggggaaca tggaggagga agaaatgaat gatggctcac agatggtgag 900
 atctcaggaa tcaactgacgt ttcaggatgt ggccgtggac ttcaccagag aggagtggga 960
 ccagctgtac cctgccccaa agaacctcta tcgagacgtg atgctggaga actacaggaa 1020
 tctagtgtga ctgggggtatc agctttgtaa gccagaggta atcgcgagc tggagctaga 1080
 ggaagaatgg gtgatagaaa gagacagcct gctggatact catccagatg gagaaaacag 1140
 acccgaaatc aaaaagtcaa ccacaagcca gaatatttct gatgaaaatc aaacccatga 1200
 gatgataatg gagagactcg caggagacag cttctggtac tccatcctag gaggactctg 1260
 ggattttgat taccatccag agtttaacca agaaaaccac aagagatatt taggacaagt 1320
 aactttgacc cacaaaaaga tcacacagga gagaagcctt gagtgttaata aatttgcaga 1380
 aaactgtaat ctgaactcaa accttatgca gcagagaatt ccttccatta aaatacccct 1440
 gaattctgac acacagggaa acagcatcaa acataattca gacttgattt actatcaggg 1500
 aaattatgta agagagactc cctatgaata tagtgagtgt ggaaaaatct tcaatcaaca 1560
 tattcttctt actgatcata ttcatactgc agagaaaccc agtgagtgtg ggaaggcctt 1620
 cagccacacc tcatctctta gccagcctca gatgttgctt acaggagaga agccctataa 1680
 gtgtgatgaa tgtggaaaaa gattcagcca gaggatacat ctcatcaac atcagagaat 1740
 tcacacagga gaaaagcctt ttatatgcaa tggatgtggg aaagccttcc gtcagcattc 1800
 atcctttact caacatctga ggattcatac tggagaaaag ccctataaat gtaatcaatg 1860
 tggtaaagct tttagccgca tcacatccct tactgaacat catagacttc ataccggaga 1920
 gaaaccttac gaatgtggtt tctgtggcaa agccttcagt cagaggacac atctgaatca 1980
 acatgaaaga actcatacag gagagaaacc ctataaatgt aatgaatgcg ggaaagcctt 2040
 tagccagagt gcacacctta atcaacacag gaaaatccat actcgggaga aattatgtga 2100
 atataaatgt gagcaaactg ttcgccacag tccttcattt agcagcacat aa 2152

<210> 3
 <211> 1079
 <212> DNA
 <213> Homo sapien

<400> 3
 acaaattata cataataaag tgtttttaat aatcaaaaaa aaaaaaaaaa aaaaaaaag 60
 acctaaaaaa aggggggttc aaaaaattgt ggcaaaacac tttctcaagt caataggcca 120
 accccattca cccattactc gggaacaaag gtcccgaagc acgaagggca aactcagcga 180
 tgcatgcagg caacaggaca aacaaaggcg gtgaaaagcg aaaagcagaa agacgtacag 240
 catgcagtga tcgaacaacg gccaaagaaac gcgcacaatg gtggcggttc agcatggcag 300
 gcagcgcatt ccacacgcgc ggtcacaagc ggaatccaac gacagcgcac agaaggacgc 360
 cgaagggaca gacatatcca cccagagca aataaatcaa cgcttgcgga cccacaggag 420
 caaaaaaacc tacaacgccg caaacgacac cactgtctcg ctccatggtg gggcaccacg 480
 agaaacaaca cccctagtgt acggaaacct ctgcaccccc gccaacgaca gggcagactc 540
 tggggcacga caaactgcc aagcaaaga aagcgcccca catcaaatg aggaccaagt 600
 cggcgaaaaa acaccccgat agtggggcac acaggcacca acagaaccag ctgcatgccg 660
 tggcgcacca agacgggtcc gccgggtggg cgaacaatca cggggggcaa gttggggacc 720
 aacaaaacac acctgcgat gggggggcct cccctgttag gaccacgtat tatgatactg 780
 aactacgagt atcaacaag tagtaaagac ctaacatact gaaaatcact atatagtgt 840
 ccgagccgag tgggtgtgctc cacataccta gtgcgacaca cggctgtcga tactacgaag 900
 tttgatagat caccggaacg agcttaccta tacatatggt aaaccctac ggtggtgtga 960
 gtgattggaa ctcatggagt gagtgatctg ccccgtaaaa ataattctag cggagaaaaca 1020
 gttgtccgag cgaaacgcag acatctgttc acagctgtgt ctggacaaac aacttgta 1079

<210> 4
 <211> 348
 <212> DNA
 <213> Homo sapien

<400> 4
 atggagagct ccgcgtgag gctgctgcc ctctggggcg ccgccctgct gctgatgcta 60
 cctctgttgg gtaccctgac ccaggaggac gccgagctcc agccccgagc cctggacatc 120
 tactctgccg tggatgatgc ctcccacgag aaggagctga tcgaagcgct gcaagaagtc 180
 ttgaagaagc tcaagagtaa acgtgttccc atctatgaga agaagtatgg ccaagtcgcc 240
 atgtgtgacg ccggtgagca gtgtgcagtg aggaaagggg caaggatcgg gaagctgtgt 300
 gactgtcccc gaggaacctc ctgcaattcc ttctctctga agtgctta 348

<210> 5
 <211> 1782
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (322)..(322)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (466)..(466)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (469)..(470)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (474)..(474)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (1287)..(1287)
 <223> a, c, g or t

<400> 5
 cccccccct cttttttttt ttttttgga tttttatgga ctctttattg gaaacagggt 60
 ctcaatcttg gtcactctca ggccagaggt gcagtggggg ggtgaccaca gtctccctgg 120
 tcagccttca acctctccca agcttcaaac aattcctctc ccaccttcag ttcttccaga 180
 agttagcgtg ggactacgag gtgtgcaaca acaccattac ccgagggtgta atttttttgt 240
 gtggcagaaa taagtgggcc tcagtgtgtg ttatctcccg agggcggtgt gtgttaaaaa 300
 actctctcgt ggagcctcga gnggcgaact cctctcccgc gtgtctctgc ggccctctcc 360
 ccaaagagtg tggctgtggg cggattacga ggggtgtgtg gacgcacacc ccgatgtggc 420
 gcgtggggct atatatgtgt gttttctttc tacaaaaaat ctatangann aanatctct 480
 ctcccagagag atgtgtgtct tacacaaaaa cctatatgcg ggcaccatat atttctctta 540
 tatatattta taccacatg tgcacatttg tgcacaagga aaatatcttt ttataaaggc 600
 tgtgggacga gggagatata atattaagag agagagaggg gcattttattt ctaaaaaacc 660
 atttaaggag aggcgcgtgg gcgaaggcta taaaagaggc gaaggaaaac tctccagggg 720
 cgggcgacaa acattattta tctgcggtgt cctataaaaa aatttcttta tgtgtctttt 780
 ttacgaaaaa gagagagaaa caacaccaag aggcgcctgt gagagggcga tctccgacgg 840
 gtgagacctc cataaaaaag ctcttctccc caatcttctt tcaagaggaa aaaagggcgt 900
 ggaacaatat agcgcgttat aaatctcttt ataccccaaa gaggaaaaaa cttcgaggaa 960
 aagaggcgaa tttttctcta taagtgggtg ttctcccca aaatgcggcg cttacacacg 1020

ggagccagac gggaggccaa aaaactcccc caatatatttc aaatctgtca gtgggacaac 1080
 cacaacagcc ttccaatatt taaacctctt gtgggcgttg tggaaggggg cgtctttttc 1140
 aacaccaaaa tttgtgttgt tttttaaact ttttttttcc caaggggaac accttaaaac 1200
 gacgttggcg cggataaaac ccaactgggc gcaaataagg ccgtgggtcc tcgttgggtg 1260
 ctcggaaaac ctctcggtct aatcccnggt ttcacaaatc cccacataag aagatgagaa 1320
 ccacgcacac gcagaactaa ccatggcacg ggacgcacac gcacgaacga caggacacga 1380
 cagcagcgaa cgacgcgccc acaccacaca cgcgcaaac agacagacga gacagcagag 1440
 gaccacacaa cagatagtgc caccaatcaa aaacgaaacc agcaaccaag actatataaa 1500
 gcagacgaac acatacagac ggaccaccaa gacacgaagc agaagaacga cgaccaagga 1560
 gaacaaagac gacaaccgaa gacacgactg caaacacag agtcgagaca caacgaacac 1620
 acgtaaacac cagaaccgac acccaacaca acaacagaag ccacagacag caaccacaca 1680
 gacaagaaca gcaaacagac cgaacacaag cacacaaaca gacaaaatcg acatcaaacac 1740
 acacacagaa gacaaaacaa cagcagaaac acagccaagg gg 1782

<210> 6
 <211> 1023
 <212> DNA
 <213> Homo sapien

<400> 6
 cggctggccg gggaggtccc ccccccttt tttttttttg gttttttttt tttttttttt 60
 tttttttttt ttttattatt atttgaaaaa aaaaaaaatt ttttttatat ttcatatattg 120
 ttggtagggg ggggtgaaaa gaaagaaaga aaaagagaga gaaaaagatg agaggggggt 180
 ggtgatggag agaacaataa ataaacaaca taatggagta gagagtgaac cgtggtgtgt 240
 gttgttgtat catacacacg catatcctca ccggaggtgc aactaagaa ccgacgtaca 300
 ttgtagatga gatagagaca tcaacacatg aagaagtgtt gatgatacgc gatagacaac 360
 acaacaatga tgaagcacac acacactaca catctaccag aacacagaac caccacgaag 420
 acaaaaacac gcgcacacaga cacaacacac agagcgaagg aggaggagcc acccacaana 480
 actcgccaca cagcagcgcg tcacatcaca acaccaccac cagcagcgca ccacagaaga 540
 gaaaaatatg aatccagaac aggcacaaca taagaaggga taagagacac agaacaacgc 600
 atgagagaga aacacaacag gaggcgacaa caacctgacg aagacacgca acgcgagagc 660
 aagaagccac agcaaagtag cgcgaaaacg actcaaacac acaaagtcac cccctaccac 720
 cagcaccact ctccgacaac acagcagcag aaagacaaga acgtcaaggc tcgagaccaa 780
 ccacacccaa acatcgctga aaacgcagag acaccacaaa aagtaaataa catgatgaaa 840
 gacaaacaca acaaagcaaa gcctaacacg aaacaagcaa aaaaaggaaa gaaaaacaga 900

```
<210> 9
<211> 645
<212> DNA
<213> Homo sapien

<400> 9
gcgggcgccgg gcaggtacag ttgttctctca ccatgacctt ggggtcccg tcccaactaat 60
ccagagccat gtgggtttgc agagacaggc attcctccca tattctggcc tctgacctga 120
aatcttctaa cttgagaaga gaacagtcac cttcctggga atctgaaata gaaaggcaaa 180
tttgtgaagg cctttctgac atctgaatgg ctggatttgc atttgctgta gtgataactc 240
agtgccatcc agacctgaca gtgatgaacg atgctggatt ctgctcaa tccatcaaag 300
cctgcagggt gaagactctg gtccctgaac ccagtgtcct ctggcccttc ctgtcaaagc 360
attggagtga cagggagaca tttgagaggc agtgaggagg aaggacagag gcatcagggt 420
gggtgtggca gcttccatat ttacgcacgg qcagaaqcaq cagatgaggg taaqattcat 480
```

gagtgggaga ggagggacgg ttagagaaca atgggaaaat ttccttcttc atgtaagaat 540
 ctggacctta ttgaagtctc tcctgcttgt tgggcaaaag taatgaaact ccattggctt 600
 cagatgaggt cactccaatg atcacagcat aaaaagatca ctcaa 645

<210> 10
 <211> 806
 <212> DNA
 <213> Homo sapien

<400> 10
 gcggcgccgg gcaggtacag ttgttctca ccatgacctt ggggtcccgt cccaactaat 60
 ccagagccat gtgggtttgc agagacaggc attcctcca tattctggcc tctgacctga 120
 aatcttctaa cttgagaaga gaacagtcac cttcctggga atctgaaata gaaaggcaaa 180
 tttgtgaagg cctttctgac atctgaatgg ctggatttgc atttgctgta gtgataactc 240
 agtgccatcc agacctgaca gtgatgaacg atgctggatt ctgctcaaat tccatcaaag 300
 cctgcagtgt gaagactctg gtccctgaac ccagtgtcct ctggcccttc ctgtcaaagc 360
 attggagtga caggagaca tttgagaggc agtgaggagg aaggacagag gcacaggggt 420
 ggggtgtggca gcttccatat ttagcagaga gaagcagaga tgagggttaag attatgagtg 480
 ggagaggagg gaaggttaga gaacaatgga aaaattttct tcttcagtgt aagaattctg 540
 gacccttatt tgaagtctct cctgctttgt tgggcaaaag taatgagaaa ctccacttgg 600
 cttcagaatg cagtgtcaac tccacatgaa tcaaagcaat aaaaaagaat caactcagag 660
 caggctgagc tatgtgaggt atgaaaactt gatcagggcc agcgtgagta tgggacttca 720
 gtcattgctc cactccctca caggaccac acgggtggag ggtgggggga attgtttaaa 780
 agcatttagt tcctaaacta gctgcc 806

<210> 11
 <211> 122
 <212> DNA
 <213> Homo sapien

<400> 11
 ccgaggttgg gtatccttgt tactgattgc catggaaatg cctctagatg tgtctccatt 60
 aagagagcgg ctttagaact taacacaggc tgccggtgct ggtgaaatac ccatcaacgc 120
 cc 122

<210> 12
 <211> 861
 <212> DNA
 <213> Homo sapien

<400> 12
 cgccccgggca ggtaccagac gtggcaaatc tcaagtgaca gtggaccccc cccccgcgc 60

ccagttaata aattcgtccc tttttccaaa ctttcccagc atcagcatcc agaggtcagc 120
 aggaagcttg agttcattat accttccttg ggttgaccct cccacacca atctctttgc 180
 tctcacttgg gaaccgggtg tgctccacgt ttatatctta actatattgc aattatgtta 240
 cattacattg gttttggtat tccaagctag cctctggggg ttaaactctag tcgccacggg 300
 gcccttgget ctttctcttg tatacactat ctaccagggt tgtggattct atcatttata 360
 caaatattat tgcttgctgc cgattctgtg gatttcttat actattcgtg tcggcggtgt 420
 gcgctgtgaa attaactttg cgcagacgac tctcacaact acttctgcag ggcgtgacta 480
 aggtgggtca caaacacaaa attagccaac gatattgtga gacctcaca ggttttacca 540
 cttctctcaa acccgatgag tggtacattc acctgtggcc acctttataa gcaatgtagc 600
 ttcaactcaa acgggggtct tacatacggg ggggggaaaa agacaacacg ctccaactgg 660
 tcttggtggc acaataactc acctctgctg ttgaaccatc cttatgcagc gggccatgtg 720
 ttgcgggctc cgtgaaaacc aacgcttcgg ggaaacacct tggggtttgg gacgcagaac 780
 ttgcgggcca tccccgcgga caaacggcc tgaaattgta ggaaatccc gggaaaggcc 840
 ctgggatccc cgcattaaac c 861

<210> 13
 <211> 1009
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (782)..(782)
 <223> a, c, g or t

<400> 13
 ccccccccc tttttttttt tttttttttt tttttttaag agaaaaacc ggaaatgatt 60
 tcgggggtga ggaataggag aaaaatgggg aaatagggtg gttattaaac attgaggggt 120
 gttttcctcg gtggtgaatg agggtaaagt ggtggtcaag tgggtgggtg gctgtagttg 180
 acccccatgt gtggtgtgtg ggtggataaa atttggttaa gggatatata gggcgtggaa 240
 catagtatat gtgtgtggag ctccgtgtta agttagcgaa aagtgtgata tattgtggat 300
 ctcacggaaa aagtgtgtgg gttccatagc cacaaggaga agtttctctc ccaggatagg 360
 ggttaaaata gggggggggg ataagggcga gatttatagc gcaagagggt gtgtccataa 420
 aaaagtttct tgtccaaaga aggcttatta tgagagcggg gacagatcta aaaagctttt 480
 gtgaaaagat ttcccttttt aaggaaaaag agggaaattt ttgatgaatg tggcaaccag 540
 ctgtgtgtag aagagtggcg cgttcgcggg aaagcagtg gaggattttg ggtccttaag 600
 gggacgacac acatatcagc ttccacagcg cacgagaaat gtgttttaaa agccacgccg 660


```

gggaggggag acgcgacaca aaataagctt gaagcaaaaa tatgaaaata agtggtggcc 720
tcgccgagat ttagaacaag cgcggggggg gagggagaaa aaaaactccc gatgtgtggg 780
cngccccaca taacggaccg tgggtgtcac ccgcgggggc ggggtggtgc gcaccaccag 840
ttggcggggt atacatcccg cgggcgcccc caaaaaatTT ttccccacac aatatattta 900
gtcgtagcag ccacgtacaa acaaccaaac ttaggtgtac acgagacgag acacacacac 960
aaaccaccca ccaccagcaa caacaacaat caagacacag acagaaaga 1009

```

```

<210> 14
<211> 357
<212> DNA
<213> Homo sapien

```

```

<400> 14
taaaaaatta tttgtagaga tgggggtctcc ctttgtgctc aggctggtcc tgaattcctg 60
gcctcaagca gtcctcctcc ctcagcctcc caaagtgtcg ggattacaga tggttaagcca 120
ccacacctgg cttttttaaa caacttctga gactaggttt cctcatagtg gcatatagaa 180
tctttcatag atggctgcag caatgtctcc cattccactg gccttcagtg accttgccac 240
ttcttcatca agaggtagag tctcttacca ccctgccttg catctgggca gtccctgtga 300
ttactttgat cagtagcata cagtgaagt gatgggtgcc actactagac aacctg 357

```

```

<210> 15
<211> 415
<212> DNA
<213> Homo sapien

```

```

<400> 15
ggttggttat ttacaatgca tgggccagcg tctccttggt cttttccgct gtcccggggc 60
gcgtacagtg tgcaccagca gtactgagtc acagttccaa ccagatctcc taaagtgtgt 120
gaccaaaggt gttgctgagt ttgaacacat tgcataTTta aagttgcaaa tagcgacgat 180
gtgggtgagc aagttagatt acttttgtct ctatgggaca gctttgacct attctccttc 240
ttggtcttcc cagctggggc attcgtgcct atagtgttca agcagtgttc tagaggaaat 300
taataagttc tgaattccta ctgtacacta atctcctctt ccacacacct ccggtctcct 360
cttaacttga ccctcatggg gctacactac caciaaggca acatctctcc ttagg 415

```

```

<210> 16
<211> 893
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (516)..(516)
<223> a, c, g or t

```

<220>
 <221> misc_feature
 <222> (788)..(788)
 <223> a, c, g or t

<400> 16
 tttttttttt tttttttttt aaataaaaaa aagagtccac ctttaaatta ttccgtggtt 60
 aaacactttt ttatgggttt gggtaaaaag caatattcta tgaccttgaa atagtagtag 120
 gtggataact atgggtggact ggccagtaaa ttctctatta ttttcaacgt ggtgccactt 180
 agagagataa tcgaaaatat tatggaacta ttatttatat ccctaaaatg tccctggcaa 240
 taacacctac tatcaccacc ttaaactatc ccacgctttt ataaacacag gctttttggg 300
 caatatcacg ctatgggtgga acgaaatgtc tcatcgcgct ggtgcgccct acatattttg 360
 gatatggggg atttcttccg tggcgctctc atattctggg atctctctca cacacacag 420
 caaaacacag tgtattcatg ggggtggcctc tcttccttac aaacacagca cacacctggg 480
 cccccctat tttggggcgc atatatatta tctctctc catagcgtgc gaggccgcc 540
 gagtataacg cgaaagcctc ctccagagac agaacaacc ccaactcgag gcccgcgggg 600
 ggcgaagtg tgggggtgtg ccaaactccc gtgcgactcc gggtacggtg caccctatct 660
 ccgggcgtcg cctgtactta tatattccct tgttaaaagc gcacctcagg ggctccccct 720
 tttcatacaa cgacgccac gctccctcca caccgcgtc tggggcagct gcgagacgtg 780
 cccctctntc ccggctgggt tgcctcgacc tccccccaa ttttttattt cccccactt 840
 tgggttgcca ggctccccac ttcacctct cgggcgcta ccctacattg gcc 893

<210> 17
 <211> 458
 <212> DNA
 <213> Homo sapien

<400> 17
 gcgtggcgcg gcgaggatga gcaagactcc tgtctcacag aacatgacat aagataaaat 60
 acaataagta acagatgtta ttttttaaaa agctaacttt atttaataac tataacgaca 120
 cagaaagatg cccttctcac actgaatctt caagattcta aggaagaaca tacgagtctc 180
 ctttgccaat gtccaagtaa gtaagattta gcacggaaat ctaatcaagc atctacttgt 240
 cctcacatgg aaatacttat gaaacttctt ataagagagc agtaatctct aggccggaca 300
 ctgctggcat catacctgta atcccagcaa ttttgggcag gccgaggtca ggtgggtatca 360
 cttgtgacgc tcagagaatt actaagcacc agcctggcgt atatatggca atgagcctcg 420
 aactctatct agaagaatta caagaaacga aaagaata 458

<210> 18
 <211> 542
 <212> DNA
 <213> Homo sapien

<400> 18
 ccgggcaggt cccctcccct tttttttttt tttttttttt ttttggaatg aaactggcaa 60
 tttttataaa aaagttataa aaattaaaaa aaaaaaccaa gcctataccc aaaacacaaa 120
 aagcaacgac acacaacctt tctccgagtt ttactttacc tttgtggagc gttcacacac 180
 ttattttacc acttttagttg gcttttttta aaaatgggtc aattttctcag ggtataggag 240
 ggagctgtga gtctcgggta taatatgagc gccagcccat ctacagaggt gttacctata 300
 atttatagag tgctataaaa tataaacaca gggtccctc atttgtgaaa aaaagaagaa 360
 aaggaaacac tattttccgg ggtgggggtt aaattttagg ccaatgggtt ataaaaaac 420
 cttgggggtt aatctcaggc ctcatagcg tgtttcccg ggtgtggtga aaatgtgggg 480
 atatctccc gcgtccacc aattctcaca ccacaacctt tccccggaa acaacaacg 540
 ag 542

<210> 19
 <211> 326
 <212> DNA
 <213> Homo sapien

<400> 19
 tgacataata taagatagag tatagataga aagagaccgc ggggtgaaaca ttcaggaaga 60
 tcacagagga aagaatctgg gaatagcaac agcacggaag ttgtttatag aatccgctag 120
 gttatgccgc cctaactcta tatcatgcag attatgatcc tagtcacaat attgttgact 180
 ttgaaaaccg aactatcaga tactccgttc aggcaccaga ctggctatga agtggcacat 240
 acatggaata gacccaaata ggactgcgaa gatgttgaaa aataaactga cattagaaca 300
 acatcccaaa gaggagttgg gacttg 326

<210> 20
 <211> 603
 <212> DNA
 <213> Homo sapien

<400> 20
 cgtggctcgc gcgaggtact tagagtttct gtttgattct tttttaataa actactcttt 60
 gattttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg ggggttccca aaccggggtg 120
 atgtttggaa acagtccctc ggattggagg ggtttcaccc ctgccaaggt gggaccaccc 180
 aagcctcgtg tgacaacgcc ctcttaacag tgggaatgcg atcgacgcac gggctctgag 240
 gatacttgcg cacagagcac actgactgcg atcgaatctg ggacttcagg gggctatcgg 300
 tcgctgggag cctcgctctc ccttgggcgc gccgcggcgc tggctcactc tactcccagc 360

gattcagaga aggcgaccct tctgggattt ctcacgcaa cggagggatt ctccgtgagc 420
 ttcgactgtg cactcattcg acacatttaa cagaacgaaa actctttttc tggccccaag 480
 tcttttttgac agggactgga aacagctggg gcagtaacct ccttggtca tacgcctgta 540
 ctctgtgtgt cgaacttggg aaagtccggt tcacatattc cacaaaattt acgcaaacca 600
 agt 603

<210> 21
 <211> 513
 <212> DNA
 <213> Homo sapien

<400> 21
 atggctaaat tctgatccg cccagccact gccgccgact gcagtgcacat actgcggctg 60
 atcaaggagc tggctaaata tgaatacatg gaagaacaag taatcttaac tgaaaaagat 120
 ctgctagaag atggtttttg agagcaccct tttaccact gcctggttgc agaagtgccg 180
 aaagagcact ggactccgga aggacacagc attgttggtt ttgccatgta ctattttacc 240
 tatgaccctg ggattggcaa gttattgtat cttgaggact tcttcgtgat gagtgattat 300
 agaggctttg gcataggatc agaaattctg aagaatctaa gccagggttgc aatgaggtgt 360
 cgctgcagca gcatgcactt cttggttagc gaatggaatg aaccatccat caacttctat 420
 aaaagaagag gtgcttctga tctgtccagt gaagagggtt ggagactgtt caagatcgac 480
 aaggagtact tgctaaaaat ggcaacagag gag 513

<210> 22
 <211> 136
 <212> DNA
 <213> Homo sapien

<400> 22
 aagatagtgc cactgcactc cagcctggca acagagcgag acaacatcaa aaaaagtagg 60
 aaggaaggga gggaaggagg gagggaggga aggaatggaa ctatgactct aagatgctac 120
 actctgagag tgtaaa 136

<210> 23
 <211> 933
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (661)..(661)
 <223> a, c, g or t

<400> 23
 ccgggcaagg tctttttttt tttttttttt ttttttttgg agggaaaaac ccggtaatga 60

tttcggggttt agaggaatag gaggaaaatg gggaataggt tgtatgagaa catgagagggt 120
 gtgtgtttcc tccgtggtag aatgaggagg gtgtttaatg tgttgtgtaa atggtgggtg 180
 ggtgtgagat tggtagacgc cccattgggtg gttggtgggt aaattattgt acgaggggat 240
 gatataaggg gctggtggac tatgtattgt gagatgtctc tggaaatgtc agagagaagt 300
 tatatatatt gtggtatcag agagagaaca gcgtgggtgt tcactaagcc cacgagaaga 360
 tatgtttctc ccacagagta gagtgttaaa taatgtgggg gggggtgtaa gaggcggaag 420
 tgttaaagcg aagtgtcttt tgtcttaaga agatgtacta tcaaaacaag actcttattt 480
 cgagtggggg aatgtaaaag tttggggaaa cgtctccttt ttgaagaaga gaggcggatt 540
 tatgttgatg tgcgcaaact gtgtgtagag tgttgcggtg tcacaagaaa gtattatagg 600
 aaagttgtgt ggctattagg gcgagaaaca aatagtttac ctcgagaccg agaatgtaga 660
 ntaacgcccc cggggggggc ggcccagcat gtataatcta gaaagaaata gtagatgttg 720
 tggcgcgccg cagcgtgtag agacgacgtt gggcggggga tagcccaaca acgtcggcac 780
 acaataagcc ggtgagtacg gccggggggg cgtgacagac gtcgggtgtt catctcacgg 840
 ggcttcaaca aattcaccta ctacaactcc atccccacaa caaccacaca cacagctcaa 900
 caacaccaac gagacgaaac aacaaacgaa cga 933

<210> 24
 <211> 911
 <212> DNA
 <213> Homo sapien

<400> 24
 ggcgcccggg caggtagcct ggtccagagg gtttgttctt attggagggc tatctgcacc 60
 tctctttgaa tctcttgga tagggagata aggagaagaa ggaaacataa attgatggct 120
 atgccttgcc ttctcgttc tgcttatccc tggtaaggt tgccagagaa ttcaggccct 180
 tcagagccag ctgagatgtg ctgatatgct aagtgattcc tcatctgatt ccttgctcca 240
 gaactacagg gacttgaaga cagactacat ttttcctgag cgagacaatt tggctctcaag 300
 ggaaacccaa actgtagcac agaattgtgag gtgagtttgc ccttgccctt tcatttatct 360
 tcctttaatc aaacagacta aacgttttca ttggaacaga gaagattgtt atccttggct 420
 ttcttgtgtc tccagcagta tttttcttag gaatgtgtta atagctgtaa aaattttaac 480
 acgtcttcaa gtgcctctca tgtaggaga ttcttctcag ttgcgggaaa agttgttgtc 540
 agattgcca gtatttaacg tgaaatccca aatgtttctg acaggttgat tatgtctctt 600
 cttcaaattgc cctgtctttt cagagtatgc agccagatgc ttccggaggg agagacattt 660
 tttctttgcc aatcccgatt ccttcagtcc tcaatcactc ccagaaaagt taggtccaaa 720
 agacggttaa ctttcagcga caagtaacga acacgattgg ggtggtctca cggtaagga 780

tagtgtggtg ctggcctttc gtaacgagtt atttgctcgg tcaccaactc ctttacctta 840
 atgtttgggc gaggaccaga acctttacgt acaatatggg tgtgtccgct taacggttca 900
 aaaagttgca c 911

<210> 25
 <211> 475
 <212> DNA
 <213> Homo sapien

<400> 25
 ggaaaacaac tttttatgta tagcttctaa aaggaagaaa aaaaaaaaaa aaaaaaccct 60
 tggacttcca cgtgcccac tcaagaacat tccactcaca gaattggagg ttctgggatc 120
 ccagggtctg ggagtttccc aattgggttaa ttggtaaaca ggaacggggc acacacacat 180
 ttaagatgaa tggtaattat tatccctcct ggctgggtca ctaccggtcg cttctctatt 240
 tctcttctct tgggtggaat ttatttaaaa gaaaaaaaaa cttttggtaa cgactattcg 300
 gcaggtttta aaatcaaata aaccccggtt tttttcaacg aaaaaaaca aaaaaaaca 360
 aaaaaaaca aaagcgcgcg ggggggaacc cggggcgcaa aaagcgcggg tccccggggg 420
 gagaaattgg gttccccggc ccaaaattcc ccacaaaaa agcggagaac aaagt 475

<210> 26
 <211> 709
 <212> DNA
 <213> Homo sapien

<400> 26
 aaaaaaaggg taaattgggt aaaaattcag gtgggttagc aaaacaaaaa ttaattgatt 60
 aggaattggc aagtttgggg atgtttccag gggatttctc agcctttaa ttattagaaa 120
 cagcagaaat ttttgtgaaa agtaaattat tttggaaaaa tgaattggca tgcagctagc 180
 ctttgtgtta ttaacaaata atttttctag atttgggacc cctaattagt ttaaaaattt 240
 aaaaatttaa accattaaac attagggggc ttttaaattg tgctcgggta taatattatt 300
 aagaatagaa ggcttgaaac tgttggtggt aagggtctt tcgtgggtgg aaggtgcca 360
 ttacattct ttattattta cgtcaagggt ccattgaaaa ctaactgtgt ttaggatcgg 420
 tctggaaatt ggctaagtct caggcagggg taaatcctgc tctcaggggc caacaggggg 480
 ggaggcaaaa tagaaaacat ttcccagata ataagctttt atcaattttt ggaggcaacg 540
 atgggaggta actcagcgaa atattacgtg ggtcctgtaa aaggaattaa gggggaacgg 600
 gaacattttt aatgggagga gaaattttct ttttaaaaag gccctaaaga aaatgggttg 660
 tagaaattcg aattaatttt aacataattt ttgggttatt tcctaagga 709

<210> 27

<211> 722
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (143)..(143)
 <223> a, c, g or t

<400> 27
 gccgcccggg caggtactac tgtaatataa aaagtcactg tatttgcgat aaattctttt 60
 ctattaaaaa aaaaaaaaaa aaaaaaaaaa aaaacacaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaagggggg gggcgcccga cgnagtgcta cgacgagatg tcgccgcgga cgaaacgccc 180
 ggggggagtt ctccgggtgt ggggggagacg ctccctcccc gctggtggta tgtcgtttct 240
 ccgacgagag cccccactt gtggtgctgc ggtttagttc taccacaccc catcggtgtt 300
 tattttcgcc gttggtcccc cactttgtaa acaatatttg gagagggccc ccacgattat 360
 cgctcgtaaa aaaaattctt gtggggggag tattaacaaa gaagtataac gccgggtaat 420
 aagagaaaag tatacggggg aacatcttcc aaaaaaactt gaatatattt ggacaaatta 480
 ttccccagg ggaaggagaa aaaaaaattt ggccccttat tataaagccc cgggtttatg 540
 gtaaagggga gcacacgca cggcgctgga acaataagaa ccattatttc aacacggtgc 600
 gcaaacacaa ataaaaacac aacagcgggt gggggcacia acgagggcca caagagggtc 660
 ccgggtgata aactgtgtc taccgcgcca caatcccaa ataatacaaa aacacagcgg 720
 gc 722

<210> 28
 <211> 1210
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (631)..(631)
 <223> a, c, g or t

<400> 28
 aaccggcggt tttattacgg tcctgagtaa tttcccttgg ccaaattccc agttttgcca 60
 ctcgctggag ccagatcctg ggagctgtca gcaaggagca ggtaagtga cagttatgga 120
 cagcaccttt cactgtggt gcttccgaac cctggctgtc acgagtgaat tgtaaagtca 180
 cgggctctgt acagttttgc catttctactg ttctgcttta agcttagctt attagaactc 240
 ttggtggagg gtgcgtacac accacttcca gaaaaggctt cacctcgctg ggaacgtcaa 300
 cccagcgaga aaggagggga agccccctct ccggggacct tatctgtgga cttaggaatg 360
 atggtgttta ttgcaaatgc acaatctttt tccattgaa atgtcatcac actggaaatt 420

gtactatatg taaaaaaaaa aaaaaagtat agttttatat ttgaaatgta tgcaaattat 480
ggccatatgg ctgattggaa tgtactactg taatataaaa agtcactgta tttgcaataa 540
attcttttct attaaaattg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aagggggggg gcgcccgcgc nagtgctacg acgagatgto gccgcggacg 660
aaacgcccgg ggggagttct cggggtgtgg gggagacgct ccctccccgc tgggtggtatg 720
tcgtttctcc gacgagagcc cccacttgt ggtgctgcgg tttagttcta cccacacca 780
tcggtgttta ttttcgccgt tgggtcccca ctttgtaaac aatatttgga gagggccccc 840
acgattatcg ctcgtaaaaa aaattcttgt ggggggagta ttaacaaaga agtataacgc 900
cgggtaataa gagaaaagta tacgggggaa catcttccaa aaaaacttga atatatttgg 960
acaaattatt cccccagggg aaggagaaaa aaaaatttgg ccccttatta taaagcccg 1020
ggtttatggt aaaggggagc acacgcgcgc gcgctggaac aataagaacc attatttcaa 1080
cacggtgcgc aaacacaaat aaaaacacaa cagcgggtgg gggcacaaac gagggccaca 1140
agagggtccc ggggtgataac actgtgtcta ccgcgccaca atccccaat aatacaaaaa 1200
cacagcgggc 1210

<210> 29
<211> 247
<212> DNA
<213> Homo sapien

<400> 29
aaaaaaaaagg tagattttcca gataatttta cctggtccag caccgggaca cacctcccta 60
aatgcctgtg taataatatt tggaatctgg atcctgcatt tctccctcaa tttatgtact 120
ggacaactaa acttattatt tcatctaaaa aaattcaaaa acaacaaaca aaaaaaaaaa 180
cgcgggggaa accaggcaca aaggggtccc ggtaaaatgg ttccgacaac aaaaaacaaa 240
caaccga 247

<210> 30
<211> 528
<212> DNA
<213> Homo sapien

<400> 30
gaaaaaaga aataatctta tctgcaaaca ttgctgaaac ctgtgtagtt tcttcttttt 60
tctcttggtta ttggtatcaa ggaatttaaa ttttagatgg actgtgttta ttaaaattgg 120
tagactatgc taaacaaatt tacaattctt ttgcctagaa aaatggaact acttaagtct 180
tatataactg gaaaactttt acttttcgct taacattaat tggaattttg gtgacagtga 240
aaattatttt ttttcagggc ttgttaaaca actgttttaa aacagatgat gaccaaacc 300

ctgctcaatg agaatagtat tgtatgtgaa actctaaaga agtcattatt catctcattt 360
 tgcagatgga attaagaatg caaaaatagt ggacatgccca agtgaatgct gttaataata 420
 tgtaaaatta tttgattaac atttataact taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
 aggaaaaaaaa aaaaaaaaaag ggggggtgggg gcactccggg gaaatccc 528

<210> 31
 <211> 890
 <212> DNA
 <213> Homo sapien

<400> 31
 tcgagtcagg aaagacttcc taagaaaggt gacacgagct gagtcttga gaatggggag 60
 gatttctaga gatggggact cagagaaaag atggccttgt ggtcaaggga gaaaaggag 120
 ctttagcttt ggctgaggca gaagaggggtg cagagatgtc acaagacaat ctaaaaccca 180
 tagagaagac acagttgtgt gtctccacac ctgccctctt ggagtttga tggcaaagac 240
 atgcgaggtg gttttgagca cacctaaggt ccgtttcagg ggtcctgaat gaggtgattg 300
 cgacaactca aagactaagt ttctaagatc ccaggcatgg agtaaagcaa ttctatacac 360
 aggatctcaa tcctagtcac aaagacttct taatgatata ggggctcaga gacatgggtt 420
 cccctaaaca cgtcagcttg gattcatact ggccccatat tttccagtgt gccatgttgt 480
 tatcctttat gaccctcgtc accatgcccc cgtcccactc caaaataaaa atcaaagcaa 540
 aacatataaa atatagtgac tgcaaatact tttaaagcac ttactatgca tcaggcttat 600
 tatatccttt ttatactact acaggtctta caattttgct gtattatctc cattttgcta 660
 gtaaggatat tgagatgcag agattaagca gttcgttcaa ggtcaccaag gcaggcaggt 720
 gcaagggctc atgcctgtaa ttcccagcac tttgcggagg cccaagggtg gttgggatgg 780
 gtttgagacc caggagttca aaaaccagcc tggcaaacat gggcaaacc atttctacta 840
 aaatcctgat cctcaggccg atcaggaaaa gtggtcaact ccaactgcga 890

<210> 32
 <211> 387
 <212> DNA
 <213> Homo sapien

<400> 32
 catgcacacc aatccgagct gggctcgggc gccctggtga ggacaccaag cagccacgtt 60
 gcctgtgctc cagcagctcc gaggtctctt cctggaagtc tgttgggtgt catcctgcag 120
 cccagagcca gggaaatggc agtggggagg gggcttcctg ggttgacagc aaagctctgt 180
 gtccacaggc aggcaggacg catgctgcag ccctgtgggg tgggcacggg ggaagccttc 240
 ctctgtgtgg cagaaaatgt gtctcagatc tctgggaact gggacaggaa agttcccaga 300
 ggggcatgta tggggaggct acagaaagtg tccccccatt tcatgtttgt gatagcagct 360

caggacagac aaacaccaag aggggtgg

387

<210> 33
 <211> 895
 <212> DNA
 <213> Homo sapien

<400> 33
 cttgactctt cagggctctt gagaatcttg cagttggttt tcggtcacag ttgctttgca 60
 aaaactgaac tgctgaacag agtggcctga ctctctttac cctgtcccc tctccccagc 120
 ctggaatggg cctggctgcc cacggcacac gtggcaaggg cccctccttg tgccttgggg 180
 ctcttgagca gctttcctag gaggaagaac ctcgaccccc cagctatata tttatgggat 240
 cctggcctgg actgaggaca aagccagggg ccacggggta cccaagctg cccattttcc 300
 tgggaagggc acagtggccc tgaccggagc tgtcattttc ggctgggggt ggtcagtcct 360
 gccctccttg ccgtggctgc tgcagcaca tgcattcat gtcgtaacca ttcgtggggc 420
 tccttcctgc ggcagcgtgg cggggctgag gccatgcaca ccaatccgag ctgggctcgg 480
 gcgcctgtct gaggacacca agcagccacg ttgcctgtgc tccagcagct ccgaggtctc 540
 ttcttgaag tctgttgggt gtcctcctgc agctcagagc cagggaaatg gcagtgggga 600
 gggggcttcc tggggtgaca gcaaagctct gtgtccacag gcaggcagga cgcagtctgc 660
 agccctgtgg ggtgggcaag gtggaagcct tcctctgtgt ggcagaaaat gtgtctcaga 720
 tctctgggaa ctgggacagg aaagtccca gaggggcatg tatggggagg ctacagaaag 780
 tgtcccccca tttcatgttt gtgatagcag ctgaggacag acaaacacca agaggggtggc 840
 cttgggcagc agccagttag gagaggcaag atgggggttaa gcttcgcaca ttgag 895

<210> 34
 <211> 502
 <212> DNA
 <213> Homo sapien

<400> 34
 aactctttta gacctagcat cagatgtctc ccttagtgag gtggagcccc gcaatggact 60
 gtctgtctgt gcttctatgc ttattaagca ttccaccttc atcataaaat atgtagcaat 120
 gttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
 ctctctctct cctctttttt ttttttttta ttctcccagc ggcaccccgc gggggggggg 240
 gggggatagg gggacacggc gggagggagc gaggcgagag cgcgcgaggc ggtagcagac 300
 acaatacaaaa aggtgggtgga gaaccacggc gcgcaacaaa gtaggacgcc ggggaggaaa 360
 atgacgtcca cgcagcgcca caggcccacc cagctagcgc acgacgaaca cgacgagaga 420
 caacagccgc gagcgcagac cgcacacgaa cgaaccacaa aaacacagaa acacaacacc 480

ggagcggcgg cgcaagcgac ga

502

<210> 35
<211> 645
<212> DNA
<213> Homo sapien

<400> 35
actccagcct gggcgacaga gtgagattcc atctcaaaaa aaaaaaaagt ctgacataaa 60
accttggtgcaa gcaggtgctc atgggaattt ccaggggctc atataatttg gttggtgcaa 120
tgctgtgga gtttggtcatg cacttatatt cctccatca aaaataacca caacataaag 180
agggtaaagt tcaaagatca tctggctctg gatactacaa caaatagata actcttcttg 240
gatatatctt ttgggttaga aggagtgcaa ggaggagaa agtgtctagg tgatgagcca 300
agaaccattt aatcccatc aaacagccca ggtttctctg tgtcactgct gacttgacat 360
gggtaagaag gcccttgatc agctcaggat ccttagaagg cttccatcac aggggttgcc 420
tgtaaggagg tgtatactac acaccaggat agatctcaca caacagcaac gagagaaaac 480
cagtcaggcc caaagtctgt caccttggtg ctcaatcttc accatctctg tatcatgtag 540
acagtcgaat tggagggtatc aggccattcc ccaaatacta ctattttaag ctgggtatca 600
tggcatagct gtccttggtga atgatcggtc aatccccata cacca 645

<210> 36
<211> 173
<212> DNA
<213> Homo sapien

<400> 36
cacattcact ttttaatttt cgagtatcaa ccattaaaaa aaattccttt catacataaa 60
tacatgttga tttccaggat ttcaaaccat ctacttaagt tttatgcctt aataggagtt 120
gctattcagg actttaaaaa gattttcgaa ccttcacaat agctcaatat tca 173

<210> 37
<211> 858
<212> DNA
<213> Homo sapien

<400> 37
gcgagtattt ttttttgaga cagagtctcg ctctgtcgcc caggctggag tgcagtgacg 60
ccatctcggc tcattgcaac ctctgtctct cagggtcaag taattctcct gcctcagcct 120
cctgagtagc tgggattata ggcattgcgc accacaccct gctaattttt tgtattttta 180
gtagagatgg gctttcactg tgtagccag gatgggtctca atctcctgaa ctcatgatcc 240
accgccttg gcctgcaaaa gtgctgggat tacagggtgca cgccgccacc ctgggctaata 300
tcacattcac tttttaattt tegagtatca atcattaaaa aaaattcctt tcatacataa 360

atacatgttg atttccagga tttcaaacca tctacttaag ttttatgcct taataggagt 420
 tgctattcag gactttaaaa agatttttga accttcacaa tagctcaata ttcaaagctt 480
 atttcctaag gctaaacagc acaaataatt taccocatgtg gcaattaaga tactgaaaag 540
 taccaaatct tgacaaaacc tctgctgaac tctatttggc actcaaattg gcttcaggtc 600
 taattttatg tgtttggaag ttttggtatt gattccaccc atatttggct tctgctcaca 660
 attcattttt cacaacaca gtaattctca ttttattttt tttattaaat tctttctttt 720
 aaaaaagtag agacgagatc tactaaagc gtccaggctg gcttcaaact ccctggcctt 780
 ccagtgatct ttctacctca gcctccctag cgtgtttggg actgcgcatg agtcacggca 840
 atgggccag ccatcact 858

<210> 38
 <211> 1314
 <212> DNA
 <213> Homo sapien

<400> 38
 acaaataaaa cagatgttcg ctcatgtgta tgacaagagg ctgtgcacag acaggatgga 60
 acgagctctc gcgtatgagg tggaagcacc catcagaggg ccgaccaggc gccgcaggtc 120
 ggcacacaca accaaacacg aagcgtcaga ccgtcagcca tatgaaccaa cgagagtcag 180
 cgcaacgata gatcgaaccg gagcgtaaac accggacagc gaagatgacc acgagcaca 240
 aagggaaaca caacacatca ccaaggcctc gcataccacc gccacccgac ccaacacgag 300
 gcactacact ccacaaccac accccgaccc taatagcgca cagccactca ctgcggaacc 360
 acgcaggacg aacagggcac acaccaacc acatcgcaa agcatgacca cacacgaacc 420
 ccacccaagg cacaacacg ctaccacgcc cgcgcgcaca caccgccc accacgagcc 480
 ccacaccccc cccacacaa cccccacctc gcccaaccaca accccggcaa caacccacg 540
 cacacacacc accaccccca ccacagcaca aaccaggaga gaccggacag cagagaaaac 600
 gacacaacga gggggaaaag aggacaacga cgcggagggg cgcagaaaga gggggccgat 660
 caccacaccg gcgagcggcg cagagagcag agggggccta gcacgtcgcg cgcggtggcc 720
 gcccgcgat acgacgcgac acgccacgaa cgacccaaca caccagcgca ccgacagca 780
 gcaaaggcga acagcgcgag accagagagg aacagcggac agacacaccg atgcgagagg 840
 ccacgaccag cgacgccgca caacggggga tgacacaagg caggcgacgc agcgagcgca 900
 acccacagga aggggaagaga agagggggaa gaagaacgcg aaggcgagac cagcagccaa 960
 caggggagct aacggccac agggcgcggc agcacacgag taaggtaagg cacagggaac 1020
 ggatacagca caggaggagg gcaaggaccg gcacgaagac acagggaacg agaggcgcgg 1080
 atggcccaca gaaacggcag aaaagaacgc ggaacggac cagaacacgg ggcagcaagc 1140

gcacggagga gccagaggca gcacaaggga accgaaggac gaaggggacc cacaagcaac 1200
 acgggacgca ccacaggagc gaaccaagca caaggaagca cagaggggga acacaaacga 1260
 cgaagcgacg cagccgacgc agaacgatga aacgacagag cgacaaggcc acac 1314

<210> 39
 <211> 418
 <212> DNA
 <213> Homo sapien

<400> 39
 tggtcgcggc cgaggtcttt tttttttttt tttttttttt ttttttattt tggaatgttt 60
 tttataaatt ttattttttcc aaaataatga ctttagtaaa aatttaacat acccgttttt 120
 ggaatcccc ctttcaaagt aggcttcccc agtaatgagg gggattaatc cagaccctag 180
 tgtttgtggc atttgtgact ttactctctc aaaagtgagc atacacgtgc ctcacagtga 240
 attatcccag aagaacttca ttactctttt tatatttttt ctccgtggaa aatttaaaca 300
 aagaaaaagc ttggcgggct aactcagtg gctcataggc gtggatctcc gtgggtgtga 360
 caattgtgta tactcccgct ctcacacttc tccacacaac tattaccgga ccaacaca 418

<210> 40
 <211> 672
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (255)..(412)
 <223> a, c, g or t

<400> 40
 gccgcccggg caggtacgcg tgtatgtacc tgcgcgcttg cggggacgtg cttgtggcgg 60
 gcggcgagag ggatgggcgt ggctaatatg aaagctgcat ctttactagt tagctaccat 120
 gcgtcattat ttatcaaaag atatatgctg cttaaacaca aatacgtttt aaaatatatt 180
 ttaggcagta gggttttggg tttttttttt tgcaagttct ttgggtgagt aaatttagtg 240
 ataatgatt ttttnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnaatgcaaa 420
 atgccatcga cgcagaaaat caaagaatca gcttaagttc cagaaaaaag aaaaaccaac 480
 caaatgaacc ataagacaac aacaacaaca acaaaaaagg gctttgggga ttcgggatga 540
 tattgcatca aatccataca ttacctgag agaagagcga ttcttcaaca ttgagccttc 600
 caatcatgat ttccacttca tttaggcctc tgtaagggcc tcacataatg gatttgtgca 660
 tgcgcaagtt cc 672

<210> 41
 <211> 687
 <212> DNA
 <213> Homo sapien

<400> 41
 gcgtggtcgc tggcgaggtt tttttttttt ttttttttgg aaaagggtaa atttataagg 60
 gaccccgtaa aatttttaaaa aaaaacaatt acaaagacaa ataaaaacat ctgaaattaa 120
 tttggcataa cagaacacaa aacttggttc aacaactcca cagagttaat tactcaatat 180
 aaatctcctc catgtgggaa caaaatttca tttgtgcctt catagtagaa caagagtctc 240
 atctcgcatt atacccttcg agtctcttat acaattctca cagaaacgtg ataaaattag 300
 cctcaaattg gacaaggaga aagagatggg agacccttg tagcatctca cgtgtcaggc 360
 ctccggagaa gggctctgta tagggataac tcctataga ctcttggtcc aagaagaaga 420
 cccccaggga attggtcttg gccattctc aaaggtctct ctcataggtt ctccattggg 480
 caaaccagtg gcccgcaaca cacggaggca gcctcataaa ctattaatt aatggggcac 540
 tttatattaa aagttcagcg ttattcctcg tgattaataa aatctactgt gtggttcaaa 600
 aaaggctggg cgataatcat gggtaaagg ctgtttccct gggttgaaat ggttatccgg 660
 ctcaaattcc acaaattgca aaaaaaa 687

<210> 42
 <211> 63
 <212> DNA
 <213> Homo sapien

<400> 42
 cccctttag cttgtggacc atacaaaaac actgtggcca gatttggctg ctgggttgta 60
 att 63

<210> 43
 <211> 470
 <212> DNA
 <213> Homo sapien

<400> 43
 gcccgggcag gtccctccc tttttttttt tttttttttt tttttttttt tttggtaggg 60
 gaaaattttt ttttttaagg gggtttccca aaaaaaaat ttttcaggga atataaaata 120
 aaaatctatt taaaaattta tccagggtta ttacatttcc cctccctccc caaaaggcta 180
 catttgggag tacaaaaaac atccagtgtc ttaaaacacc tggatctctg gttgcggcga 240
 cgttaaagag gaggcaagat agctggcgct ctcaacagca cactctaggg ggtgggtccc 300
 cttacgggag ggggagggat atgcgcccc ctattacact cttgggtgca agggacaaga 360
 ataaaaagtc gtgggcggtta ccccgggcg catcagcgtg gtgccgggg gggaaaatgg 420

ggaatccggc ccacaatccc cccacaacta tccccgccca acgaacacgc

470

<210> 44
 <211> 713
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (45)..(463)
 <223> a, c, g or t

<400> 44
 cgaggtaccg cgccagccca ggagaacccg gaagccagca gctcnnnnnn nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnaaggccc tcgcccgcgc 480
 cccgcgcccc cccgcccccc ccgaagacag cgaggtcagc agagaccgaa gaatcaacca 540
 ccaacgacca gcgaaagagg cacatcacia aaggaaagac agcatcgagc acacaacgca 600
 ggctacaaaac ataagcgcca cgaaccatat agcgactgga gtacaggcaa aacaagacat 660
 tatatgactg gcacgaccgg tgcgcacacc gctgatagca gacgacacag aag 713

<210> 45
 <211> 488
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (254)..(365)
 <223> a, c, g or t

<400> 45
 acttcagtca atgtcgtgtt agagtggagg aaatatagta acacttcatt ctatgaatag 60
 gccaccatta atgtaagcat tctctgtgtt aaagacattt ggattctttc ctgttttttc 120
 tgtttatgta tgtatgtatt atatttttta ccttgaggca ttcttggaca ttcttcttgc 180
 acacttgagc acttaggaca gttttgcaaa cttctctggt gttaccagtt acttaggcat 240
 ttatgtaaaa atannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnaaaaa aaataaaaaa aaaaaaaagt tggggggttaa cagtgggcca ttacggtggt 420
 cccgtgtggt aaaatgggtt attccgcccc aaattttccc cacaattttc ccaccaacaa 480
 tacaagag 488

<210> 46
 <211> 487
 <212> DNA
 <213> Homo sapien

<400> 46
 cccagtgatg atggatcgag cggcgccgg gcaggtgcct gggccagacg cttcactctt 60
 ctgtgaaagg aaaacggagg gtagggattt ttaaacctac atgtttccca gggcctgggg 120
 caagtcttga gtagactggt gcagtaaacc gactcaaagg cctatcacct ttcttgtgag 180
 gctcaaggtc taatcattaa ttgacatgaa aaccacagga gagaagcaaa cccttctgtg 240
 ctgggatctg tgccccagtg ctccatgttc cctgataggc ggctaattga attcataaaa 300
 taaatgacat gcctcttctt aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaagagagct 360
 tggggggttac tccaatgtgg ctcatagcgg tgttccccgt ggggtgaaaa tgtgggtttc 420
 tccggcctcc acaattctcc cccacacctt ttgcacccc aaggggtcgg agcggaggaa 480
 gacaagc 487

<210> 47
 <211> 667
 <212> DNA
 <213> Homo sapien

<400> 47
 gcgtggtcgc ggcccagagt ccataaccct gccctcatcc cagatctgtg cagatgaaag 60
 agagggaggg agagggaaag agagagatgc tttgggggtg atttggccag aggccaccag 120
 gctggatccc atgaagaaat ctgggtgaga gggctctaaa gtcataaaact gagatccagt 180
 tgccagggtg ctgcatagtt gccaacagtg taatgtgtca ccttttgatc ttcacagaa 240
 atctcagcct ggtggccacc tggccaaata cactgcagag catgtctgtc tgtctgtctg 300
 tctgtgtctc tctgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 360
 tgtctctca ctctttcatc ctatcattac atagtagtat aataataaat attagagaga 420
 tacacagaaa atatataagag aagataacag tgttctctat aaaaaaaaaa cagctgccct 480
 ctctgcatag cttetaacaa ctgagcaact ctgcagaaa agagcacaaa acgggagaaa 540
 caagaaacaa acgggagaca agactagaga aaacacagga cagcggacaa aaccacgtga 600
 gggagcaaca ccagaggggc gaaccacatt accccacaca cgtgaaaaag cgagaccagg 660
 ggggaga 667

<210> 48
 <211> 1677
 <212> DNA
 <213> Homo sapien

<400> 48
 gagttgcggc gtgccaaggc ccacgagggc ttgggcttca gcatccgtgg gggctcggag 60
 cacggcgtgg gcatctacgt gtctctgggtg gaaccaggct ctctagctga gaaggaagga 120
 ctgcgggtcg gggaccagat tctgcgcgtc aacgacaaat cctgggcccg ggtgaccac 180
 gcggaggccg tcaaggctct gaagggctcc aagaagctgg tgetgtctgt gtactcagca 240
 gggcgcatcc ctgggggcta cgtcaccaac cacatctaca cctgggtgga cccgcagggc 300
 cgcagcatct cccaccctc gggcctgccc cagcccccag gtggtgccct gaggcagcag 360
 gaggtgacc ggaggagcac cctgcacctc ctgcaaggag gggatgagaa aaaggtgaac 420
 ctggtgctgg gggacggccg gtccctgggc ctcacgatcc gtgggggagc tgagtacggc 480
 cttggcattt acatcactgg cgtggaccca ggctctgaag cagaaggcag cgggctcaag 540
 gttggggacc agattctaga agtgaatggg cggagctttc tcaacatcct acacgacgag 600
 gctgtcaggc tgcttaagtc atctcggcac ctcatcctga cagtgaagga cgtcgggagg 660
 ctgccccatg cccgcaccac tgtggacgag accaagtggg tgcaggcttc ccggatcagg 720
 gagaccatgg cgaactcggc agggctctggc cactctgctc gctccaatct ccagacccca 780
 gggccatttc tgaaagccag tgatagctgc ctcccatccc tccaccgccc tggctctcct 840
 ctcagcctgc agtcccaca ccagggcctt ccattggcag gacatgacct gggcacatcc 900
 ctctctcttc ttggcctcag tttcccatg gaaagctgaa atacaccatc caactgtctc 960
 attctttatt tgtcccaaaa ttacttaact cattctatag accttagttg cttcatccaa 1020
 aaagtgggga ccataaccct gccctcatcc cagatctgtg cagatgaaag agagggaggg 1080
 agagggaaaag agagagatgc tttggggtgt atttggccag aggccaccag gctggatccc 1140
 atgaagaaat ctgggtgaga gggctctaaa gtcataaact gagatccagt tgccagggtg 1200
 ctgcatagtt gccaacagtg taatgtgtca ctttttgatc ttcacagaa atctcaggct 1260
 ggtggccacc tggccaaata cactgcagag catgtctgtc tgtctgtctg tctgtgtctc 1320
 tctgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtctcctca 1380
 ctctttcatc ctatcattac atagtagtat aataataaat attagagaga tacacagaaa 1440
 atatatagag aagataacag tgttctctat aaaaaaaaaa cagctgccct ctctgcatag 1500
 cttctaacaa ctcagcaact ctgcagaaa agagcacaaa acgggagaaa caagaaacaa 1560
 acgggagaca agactagaga aaacacagga cagcggacaa aaccacgtga gggagcaaca 1620
 ccagaggggc gaaccacatt accccacaca cgtgaaaaag cgagaccagg ggggaga 1677

<210> 49
 <211> 802
 <212> DNA
 <213> Homo sapien

<400> 49
 aaaaaaaaaa aatTTTTTTTT caacattaaa ttttaattga aaacatgaat atggctgggt 60
 gctggtggct cacacttggt aatcccagca actctgagaa gaacagaagg gtggggtgga 120
 atcccaagca ctttgtgaag ttcaaacagt tgtaaaacca gccgtgggtt aacacgggac 180
 tccatctcta caaaaaaaaaa aaaaaaaaaa aatgggggggt ggggggcatg tggcgccgtg 240
 ttacccccag agttaacccc taaaagctct ggggtggggg agaggaactg gctgggagcc 300
 cccggaagt tgggaaacct gcgagtaagc ctttaaggaca ctccgcgga gtggccact 360
 cccaaggcgg gaaagtggag gagaaccaa aacttgtggc cctcaaaaaa cacagaaaaa 420
 acaattacat tcccagagtt cccgggacat cttccttaaa cctccagaga ggcccaaaa 480
 ggagaaccgc gtggaaaacc gagggaaacc cctctcaaac tgaccggggt gaaccacagg 540
 cgcgacacac ggcgaaccat gggggggaac cccacaaaac acagatcccc caaataaaaa 600
 ggggggcaca acgcggggct cccccagaga caccaccggc gctgcgggac ccccgggcgc 660
 cgcaggaaac aagggcgaac acgcattggc ggcaaaaggc cgtgggcggg aacccccacg 720
 ggggcaaaaa ccgctggatg cccgggctgt aacacagggg gataatcccg gccacaagg 780
 cccccaatac cagcaccac aa 802

<210> 50
 <211> 918
 <212> DNA
 <213> Homo sapien

<400> 50
 gaagaacccc gggatgttag atatatggcc atgctgatct agatgcatgc tcgagccggc 60
 gccaatgtga tggatgcgtg gtcgcggcga ggtaccaaaa tacagaagct gattccaaaa 120
 tctatgctcc ataaccatcc gagactgccc aggctgcaat ccatggagac agcgagaaac 180
 atgacaacaa acaatacat tgcccagtc tgaaatctga ctctggtttc taattctacc 240
 actaaacttt ttataatttc tgattataaa aataatgtga aaataacata gcaattaaca 300
 tctattgatc acttgggact aagcatctgc cagagatcat ttaattctca cctacaaagt 360
 agatactatt ttctgggggt gaagggattg gtctaaggtc atagagctat catgtgtaag 420
 aggcaagata agattcagac tcaaaaggcc agaggatcag agttacactg ctttcctgca 480
 cagaattact actgattgtt gccccggtta cataggactg ctgagaaaat ggcacacaga 540
 cttatttctt cggagaaaacg tcaaatgttt catatgattc attattctta tttttacttt 600

tgaatttggg gttcattggt taattataaa agatggctct tttactagca aaaaaaaaaa 660
 aaaaaaaaaa aaggcctggg gggtagcctc gggttcataa gcgggtcccc ctgggtggac 720
 attggttatg ccgcgccaca attccccaca atttacgact acacaacgta ctagcaagca 780
 ccagactacg aactaaaca tcacacacaa cagtcaaaaa acagccaccc gaacacagca 840
 aacacaaaaa acttcaacac atcacacaac agaacgacaa agagaatcaa caaacaagc 900
 ggacaacaac cacacacg 918

<210> 51
 <211> 985
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (856)..(856)
 <223> a, c, g or t

<400> 51
 taggcgaatg gtccattaat ggcattgctc gagcggcgca ggtgatggat gccgccgggc 60
 aggtctctct ctctctctgt gtgtgtgtgt gtgtgtgtgt tatatgtgtg tgtgtatgga 120
 gggtaggtga aaggggatga ggaatttatt tctgtcttcc tggaaggata gattcttctt 180
 ttttgaatta gcctcattaa acttttaagt aatgactcct gaaaaaggac aaagggataa 240
 ggctcttttc caaagagtta tctttgtgtg ccagcaatca gtcattactc tcctaccatg 300
 ccatgtgaca caggatgtgg tctgatattt agtctaaata catgcttcac tttttttctg 360
 ctacagagaa ggcaattata atgctccttt tgttatgcaa ataacttctc agaaaagtgc 420
 cctctctcct ccttaaaaaac tagatttact cagactaggg tgaaaaataa aagtcaatcc 480
 tggcatttaa gtggtttctg gccctcagaa gccatcttag tagaaggatga tgaatatggt 540
 tcagtggctt cctacttctg gaatatgagc agggtcagtc tacagcagag tcagaagggc 600
 tgtccctcca gggatccagg aaggctgtaa cctcagtgtg taaccccagt ctttggggga 660
 acaaagtttg acatttctga agtgttctgt atttcatttc ttgggaccct aaccccataa 720
 actataataa aatggggtaa gtggaatgag tgtaataaat caaccttttt cactcacata 780
 acgttagctg ttataattat tcttttatgt aacaaatgcc taagttaggt atgggttttc 840
 tagaaaattc agggangggg ggggaaatac ttaaacaggg ccttcaaac caagcaatat 900
 gttgtttgtt tgctcccata cgaagcttgg gtttccaaaa gggggggggc caggggaaag 960
 agctttttta aggaaacaaa aacac 985

<210> 52
 <211> 669
 <212> DNA

<213> Homo sapien

<400> 52

```

cogcccgggc aggtactagt agtcagggcc ctcagtctca catttgcccc tgacttgatc      60
gagttcactt ccttctcaat aaacatggca ttaggccaga caatatttaa gcagagtatg      120
gtggaaatgt gggcaggtct gaggggtggg aaaataaaag gataaaatac ccctgagggg      180
ttagatatat ttaaaatcac aaaggtatta tatcacagat ctataacttt actaaaatat      240
aaaaatgaat gaaaatatat ttggtattat tttatcttag ccctgtaaga gaagctaatt      300
ttctcttggt gctcttcagt ttttagtaag agaagtgcaa gcaacttttt cttatgggcc      360
gggatgaaaa atagccttat gaactcccag gaggagtttt ttcttaaggg gatacatatc      420
atttaaacca cagaagagag gtaagtaaag ggtgagtaac ctagattgtc tagaaaaagg      480
tggtattaga gagacccttt atgtattcta gatttgcaga gttgtgtagg aaataacact      540
gccacctata cctatggaca tgattagaaa gaaacaatgg gaggcagttc tgtaacagtg      600
gaatcatttg actcaaagtt gggtaatcag gtcatagctg tttctgtgtg aatgttatcg      660
tcacatcaa                                         669

```

<210> 53

<211> 837

<212> DNA

<213> Homo sapien

<400> 53

```

aaggatgata tctatagggc gaatggctct tagatgctgc tcgagcggcc gcagtgtgat      60
ggatgcgccc gggcaggtac agcttttttt tttttttttt ttttgggaaa tggaatcttg      120
ctctgtcacc cagggttgat taaagtggcg caaccttggg tcaccgaaac ctctgcctcc      180
tgggtgggtg tcaaaaatat tctcctatct tctgtgtgct tttcagcttc tcccaagtta      240
gctgtggggc ttacaggact tgccaccacc gccaccagc ttaattttgt gcacgttttt      300
agtaaagcac ggggggttctc acttaatttg tttggcccag gcgtgggtctc tcgactcctc      360
cgtgaaccgc aggtgactcc ctccgtgcc tcgcgcctcc tgaaaatgtg gctgggtgat      420
taaacatggt tggtgagcca acctattggt ccagccacaa aaaatattat tttcttaatg      480
tcaatgtttt tggagtcttc aacaccttat taattctttt ctacagtggg ctattatact      540
aatattattc cccaatattg ggatattatt attggagatt gttgttatcc acaaatatgg      600
agaatatgaa tatgggcgaa atatcgctaa aaagaaatct tcagtattcc ttattattca      660
aatgttattc acaaatatta ttctcacaaa atatttcttg aactctataa acaaaaatat      720
aaaaaaaaa aaaaaaaaag gcttgggggt actcttgggc caaaactggg cccttggttc      780
gaaattggtt cccgtcccaa tccacactcc tccaacaaaa aggaaaaaaa gaaaaaa      837

```

<210> 54
 <211> 718
 <212> DNA
 <213> Homo sapien

<400> 54
 gggaaaacaa tgaaaagaaa tgcacgtag ttttcaatcc agatttaaga agtaacaaca 60
 atcttttttg ttctgtcggtt gtaaaggaca aggtctcact cgtgttggcc cagtgcctgg 120
 gaagtcgccg atggatgcaa atcaatgaat ctacttgca ttccttgtga tcctatcctg 180
 gggcatcagt gtgacccctgc ccaatctcga gccatcccgagggaagctg ggtactcaac 240
 taggtcgtag cactacgcta agccatcgct ggcataattg ttcactatct gccataagga 300
 cagggttggt cgccaatgtc tggcccaggc tgaagtcatt ggaatctacc atgtggcact 360
 cgaatggctg agttcataac cctaacgctg tggagcgctc acaagagtgc tggtgattta 420
 cgaacgggtt tacatgtcac tagcacatca gcacaaacag atctttaatt ctacgaggat 480
 gataggatct ctgtatatag aacacatcct aaggattgct atcaggataa aaattattag 540
 actatgaggt tggagacaag ggtcgagaa taaatgtgta tttctacaca cgagcaatga 600
 acaatctgaa catgaaataa taaaacaatt ataaacagca ttaaagacag cttggcgtat 660
 catgtcatag ctgttcctgt gtgaaatgta ttccgtcaca ttcacacact agagcagg 718

<210> 55
 <211> 913
 <212> DNA
 <213> Homo sapien

<400> 55
 cgagcggcgc ccgggcaggt actgacctga aaacttgtga caagaatgaa caccaacaag 60
 tgctccctgg gactgtagtg accctttctt gccatcccca tccccgtgaa gtctgaacct 120
 tgagggagac aacgagtcgg agggagtgag ctagggcgat gcaaaactata ctagaatgga 180
 gtgccttgga gggtcataat atgttaggaa tggatagata gaggaatgg aggatgataa 240
 agatggcagc atacataggg gtacatacag tcaagaaaga gtggaaaaat agggaatgac 300
 atgaggaagg gatgaaagtg gtagagtgcc attgtaattt gcatgagtaa tgctggaaag 360
 ataggtcgcg gagcggtagg acatgatgaa gtggtaggcg catgtgaaga gggaacgcgc 420
 aagatgatgc cttcaggagc gtttcgtgac tcgtctaccg tgggggggta tatcaggggg 480
 gcatagcatt aaaatagtaa catccctatc gtgaatttac tatctttggt tactaggagt 540
 catggtttat atggcgctcc atgcaaagaa gtgctacggc tcagggcact aacactaagg 600
 tgcaattttc gctacctcgt ttctcgtgcg acgttgtgca gtggtcgttt actgtgcgta 660
 ttaagaggcc acctatttgc acagagagtg agagcaattc aacacataag ggataaatgg 720
 ggctgggcaa ggctagttag tagcccaagc gtggccacgg gtgttgacct gttagggcct 780

gacagcattt gacttttagc caacaaagag ttccggctgt gggaaatctg ttagtcaaac 840
 attcgccctaa cttccaggca aatcttcggg agctagcttg ggaatcagtg ctgtgtccgc 900
 gcatgttcct cct 913

<210> 56
 <211> 1203
 <212> DNA
 <213> Homo sapien

<400> 56
 ccctcaaaac tgactctgtt ccacaataag ggcttttagtt ccctggccgg ggacatcttg 60
 atcaagttag aaggccgaag atcagtaaga tggatttgct gaataggtag atatctgggg 120
 tgtgtgtgtg tgtatgtatg tgtgggtgtg tgtgtgtgtg tgtgtgtgtg ttgggtgtga 180
 taaaaacggg gagcaatgct aagatttctc atgaggggtgg atttacttta aacagtttat 240
 accctcctac cctaaccatc cattcacacc atgacacctg tgcccttctc cctctaggga 300
 aacggcaaca agcctcccag tactgacctg aaaacttggt acaagaagaa caccaacaag 360
 tgctccctgg gctgaggacc ctttcttgcc tccccacccc ggaagctgaa cctgaggggag 420
 acaacggcag agggagtgag ctaggggcat gcaaactata ctagaatgga gtgccttgga 480
 gggtcataat atgttaggaa tggatagata gaggaaatgg aggatgataa agatggcagc 540
 atacataggg gtacatacag tcaagaaaga gtggaaaaat agggaatgac atgagggaagg 600
 gatgaaagtg gtagagtgcc attgtaattt gcatgagtaa tgctggaaag ataggtcgcg 660
 gagcggtagg acatgatgaa gtggtaggcg catgtgaaga ggaacgcgc aagatgatgc 720
 cttcaggagc gtttcgtgac tcgtctaccg tgggggggta tatcaggggg gcatagcatt 780
 aaaatagtaa catccctatc gtgaatttac tatctttggt tactaggagt catggtttat 840
 atggcgctcc atgcaaagaa gtgctacggc tcagggcact aacactaagg tgcaattttc 900
 gctacctcgt ttctcgtgcg acgttggtga gtggctcgtt actgtgcgta ttaagaggcc 960
 acctatttgc acagagagtg agagcaattc aacacataag ggataaatgg ggctgggcaa 1020
 ggctagttag tagcccaagc gtggccacgg gtgttgacct gtagggcct gacagcattt 1080
 gacttttagc caacaaagag ttccggctgt gggaaatctg ttagtcaaac attcgccctaa 1140
 cttccaggca aatcttcggg agctagcttg ggaatcagtg ctgtgtccgc gcatgttcct 1200
 cct 1203

<210> 57
 <211> 377
 <212> DNA
 <213> Homo sapien

<400> 57
 cggcctcaca aagtgtggg attacaggca tgagccactg caccagcct ggggaatctt 60

ttataatggg ttatgaagtt tacagacttc attcagattc cactaaattg gattttatga 120
gaattcagct gcagctgaca ttacctctg gtctaactct gaaaagaaaa attgtttccc 180
aaaaggatgt gtggtatatg tagtattaag ggtggggaag ggctatttaa ttaggtaag 240
ataaagaact ggttttaaga actttacata gtgattacat agaaatggat gtgggtagtt 300
acaagggtt cttatctatt cattcatgcc cacctgccca gcccctgct gattcagacc 360
agctttcact gccaaga 377

<210> 58
<211> 1527
<212> DNA
<213> Homo sapien

<400> 58
ggaggcttat tcgccgagag ttttttccca ccttgaggga tgttttcgcc cggcctgttg 60
tcccctctgt ttgccaggt tatgaaggct gtgtgccag agatgtgtgg gaagaccgg 120
gagcccctt tgggggccgt cccctttatc tcggtttaat agggccccag ggagtgcgcg 180
gccttggttg cgcttttttag tgactcgtac cccctttttg aatcgaccg ccaaacctg 240
tgagatgtt ttttccccg gaaagactgt ggggacaagg caaattcggg tgggggcccc 300
acagggttg cacacaaatg gcttgggcgc ctctctggag acacatctgt gggggaacac 360
acgggtttga aagcagttgc aaaccaaggg aggattgtcc ccggggtttt ttgtgaggat 420
taggtgaacc cccccacgtg tgtgaaaagt tttaagttcg tgagctgttc gaaccgcacc 480
gcttgatat ttttcttccc cggggtgtag gaaggcccc cgggtgtgcaa cacactgggg 540
gggtatatag ccgtcccccc caggggcgtg ttttcgcgtt gtaaaacttt tcccgggggc 600
accccccg gggttgttta aactggagag ggagtttttt tttccgcgtt ggaaacattg 660
tcacacacac gttggaggcc tgttgtaacc ccggagggtt gtggattgta gacagatatt 720
gaagcgagga gatccacttc ttggttgaga agggccccac ctggagggtg aaactctata 780
actcggggtt ttttctggga gaaaagaaaa gttcctcgag attcgcgccg cgggagagcc 840
ctctctaata tggttaatat cgtttgaga catctcacac agaaaaatgg ccccaaacac 900
gctctgagtg tggagaagtg atacattgag aagagagggt ctccaaggaa gaactctttt 960
gtggggccaa cgcgcacagt gttcacacac acaacatttc tgttctcttc tttgggagtt 1020
tgaccgcgag ttgaacgggc taccgcgag agggccaata tatttttaaa aaccacactc 1080
ttggcacaaa cacattgtgg gtcaccaatg cacaaattat ggtgggtcaa taatgaccac 1140
gactgcacat tccgggagaa caagggttaa gcacaataac ttgctttgag agaatcacca 1200
ctttcgaact cggctctgct agtctgaggt ttttagatgt ttaaaaaatt taatgtggag 1260
aattaaatta aaaggatatg tggctatatt cgctaccaca ttccacattc ttttagcct 1320

tatgtgaata ttttactgga aaataagact aataaattgt taacagtttt taaaaaaca 1380
 acaaaaaaga aacaaaaaaa aaagaaaaaa caaacggcca caccgcaccc ccgggcaaac 1440
 acggcccccg ggggccctcc ggccccctc gcccccccc gcaacttttg tcccccgcc 1500
 ccaccccccc ccacttcccc cacacct 1527

<210> 59
 <211> 532
 <212> DNA
 <213> Homo sapien

<400> 59
 cgcccgggca ggtacgtaga tgccattgcc atagccatcg ttggattttc agtgaccatc 60
 tccatggcca agacctgagc aaataaacat ggctaccagg ttgacggcaa tcaggagctc 120
 attgccctgg gactgtgcaa ttccattggc tcaactcttc agaccttttc aatttcatgc 180
 tccttgtctc gaagccttgt tcaggaggga accggtggga agacacagct tgcaggttgt 240
 tggcctcatt aatgattctg ctggctcatat tagcaactgg attcctcttt gaatcattgg 300
 cccagggtgg ggtggtcggc catggtgatg tgtcaacctg aagggaatgt ttatgcgggtt 360
 ctcagatctc ccctttttct ggagaaccag caaaatagag ctgaccatct ggcttaccac 420
 ttttgtgtcc tccttgttcc tgggattgga ctatggtttg atcactgctg tgatcattgc 480
 tctgctgact gtgatttaca gaacacagag tccaagctac aaagtccttg ga 532

<210> 60
 <211> 499
 <212> DNA
 <213> Homo sapien

<400> 60
 tttttttttt tattcaaaag tggaatttat ttctgacagc tctgaaggct gagaagctca 60
 aagttgaggg gctgcatctg gtgagggcct tcttcttggt gggaactgtg cagaatcctg 120
 aggtgacagg gcatcacatg atgtgctggc tcagttctct ttccccctgt tagaaagcca 180
 ccagtcccac ttttgtgaca tccattaat caatcaaccc atgaatcctt gcgcgggtta 240
 atctattaat gagggcagag ccttcattga ccaatcaccc cttagagagc cccacacctt 300
 taatactgcc acattgagga ttgagtctag aggggaatgc taccattcca ccctgatcc 360
 cccaaaatca tttccttctc acattcattc tactcccata gttccaaagt ctgaactaat 420
 tccagacaaa aattccagtt caaagtccag agcctcactg tgtgagcctg tgaaaccaa 480
 acaagctctc ttcttccaa 499

<210> 61
 <211> 544
 <212> DNA

<213> Homo sapien

<400> 61

```

tggtcgcggc gaggtacttc tgttccttcc accctagccc cacctatcct ctccccatcc      60
aagagcaaac agctctgaac agtctggagt agctggagac actcctcacc ttggcactct      120
ccttgccact tgccatctag cagagctgga tgcctccctt gagcgctctc tgctccatcc      180
cccaggtatc taggctgcct cccatctccc ccaactggcat ttgaacttta agagcctggg      240
ctttgtgctt ggaatccaat gcaaaggctt ccataaacta gcactccata aacaactttt      300
gaacaaaaat tcaaattccc agtgggttcag ttgcaccaag ttcaagacta agtatattcaa      360
ataaaaaaaaa aacaaaaaaaa aacaaaaaag ggcttggggc gaacctccat gggcatctag      420
ctgggttcccc gtttgtgtgg tcattgggta tccggctcac atttcccaca cactttcccg      480
gccacacag cagatgtgag agagacaata tccgcgccga gacgcagcaa cacaccgcca      540
cacg                                                                 544

```

<210> 62

<211> 589

<212> DNA

<213> Homo sapien

<400> 62

```

gcacccaaat cactagcact ttctggaaca tggcaggcct tctttggctt tctgctgtgt      60
acttctgttc cttccaccct agccccaccc atcctctccc catccaagag caaacagctc      120
tgaacagtct ggagtagctg gagacactcc tcactctggc actctccttg ccacttgcca      180
tctagcagag ctggatgctt cccttgagcg ctctctgctc catccccag gtatctaggc      240
tgccctccat ctccccact ggcatttgaa ctttaagagc ctggctcttg tgcttggaat      300
ccaatgcaaa ggcttcccat aactagcact ccataaacia cttttgaaca aaaattcaaa      360
ttcccagtgg ttcagttgca ccaagttcaa gactaagtat ttcaaataaa aaaaaacaaa      420
aaaaaaacaa aaaagggctt gggcggaacc tccatgggca tctagctggg tccccgtttg      480
tgtggtcatt ggttatccgg ctcacatttc ccacacactt tcccgcccca cacagcagat      540
gtgagagaga caatatccgc gccgagacgc agcaacacac cgccacacg              589

```

<210> 63

<211> 212

<212> DNA

<213> Homo sapien

<400> 63

```

taagcccttt atagcttaat tctatatatt aaattttccc agttgcgaga aaaaacaaaa      60
caaaaaaaca aaacaaaaca aaacagcgct gggcgcggtg acaccaatg gcgccccaaa      120
cgcggtggtc ccgtggtggt ggcacatatg tggtgatatc ccggtccaa caaattccct      180

```

acaacaaata acgggaagaa aaggccaaaa aa

212

<210> 64
 <211> 658
 <212> DNA
 <213> Homo sapien

<400> 64
 gcgtggtcgc ggcgaggtct tttttttttt tttttttttt tttttttttg ggcgcttggg 60
 ctatgtttta tttgggcaaa gtaccttata aaacataaca ggcaaataac caaaaaaaaa 120
 catccttgac ttaaggaggt gaaaaataat ctcatgaaaa agttaccact aggataagtt 180
 agtgcaaata cttatccata aaaatactct cttaaggggt gcagtgaagc gtcggcgtag 240
 actcgagggc tctactagct gtccgcgggg gtgaaagtgg tactctccgc ctcaaatcc 300
 cacacaacca atcccagaga cgcacacgga accgcaaccc aagcacacaa gcagacgccg 360
 acacagaccc gcacccccag caagccaccc ctccgcagcc caaccaacga ccaccacgcc 420
 aacccccacc ccagcgcacc acacgcgcca cagcacagca acacccgaaa cgaaccacga 480
 aaccagcaac caagccagca aacaccaaac caacaccacg acaggcaacg cacgaagaca 540
 accaaacacc aacgacaacc cccagacaac acccaccgga cgcaccacag cccaccacca 600
 cagcgcgcca cccaccagca caccggacca cgcccggcag cggccgcccc accaacc 658

<210> 65
 <211> 226
 <212> DNA
 <213> Homo sapien

<400> 65
 taatgacata taggcgcatg gttccctaata gcatgctcga cggcgcaggt gatggatact 60
 gatgcccatt tggttgattt cagtctccag gtcaactgag atagtgtgac ccagagctcc 120
 taccctaaat catgtggttg gtcttccac totacatcaa aatgttgcta tctgggatag 180
 cccaagatcc ccagacaaac agagattact taccaaggac aaaggc 226

<210> 66
 <211> 430
 <212> DNA
 <213> Homo sapien

<400> 66
 ttggcattag caacctcaaa aactctggaa aaggcttcat tttctccagt ctcttgggag 60
 aggagaggca ccatggaagg cagacccatc cagagaacac ctgcgacagg ctgagaagcc 120
 attgggagac acacttctga acaccaccac tggaaaatca cacatgctga aatgggagag 180
 ttccctgacc cccttgacag atatgtgaca ggagtgtggc tcatctgttc agctggagtg 240
 catactcaaa ccccttatga gacaaggagt atgcagacag aaggtgcagg aactgggaag 300

caaaatatta actagttaat ttgatctcca agagttaagc ggttttaata ttactgacag 360
 taatatcagc agtgggtgttg gaaccccatg atctcatgaa tcatagatag caactgctta 420
 ctggacattg 430

<210> 67
 <211> 813
 <212> DNA
 <213> Homo sapien

<400> 67
 aaatggacgt gcagactcaa atgaccgcat aaaccagatc agggaaaaac agataagaag 60
 ccagcatgac aataaagtga aactcaggcc aagagaagac agggagagac gaggcagcgc 120
 atcagccggt aaatagcgag cagccgacca gaaccagcaa ttacacatcc gcgagcacga 180
 cctagacaaa cagacataga cgcatacagg cacagaaacg agcagaaggg acgagacaga 240
 gaaaaacaag acaacaacgt caaaaagagc aggacaaaaa agagcataat caagaggaca 300
 acaaaggacg aaagaaacag caagcgaaaa aacaacacat gaacgagggc gcaaagaaaa 360
 ggcacaagcg acaaaaaagc gaaccacagg gagaacgagc gaacaaacag gaggacggcg 420
 aaaagtgaag agaacgagaa taacaccata aatgacacac aacgaacaca caccacgtga 480
 cgagagaaaa cgacaacaga aacacgaaag gcacagcaaa acgaaacacg acgcgagtga 540
 cgaaaagcca cagacaaggg cgtatacaaa ggactacgca agcgcagtaa cccaaccaag 600
 agaaaacaca caaacagggc gagcccgcac acatggcaca gaccaccaga acgcatgaag 660
 acgaacaaca ccgagcagca cgaagccaca agagggaaaa gcgaggcgta gctaaatacc 720
 aacgcggaaa agtaaaacag caggaaggaa agcagaagac aaagcagaga cataggagtg 780
 acacagacca cgaaaagaag acaatgacag gat 813

<210> 68
 <211> 444
 <212> DNA
 <213> Homo sapien

<400> 68
 caaacaaca aaaaaaaaaa aactctggtc tccttttagga tatgttacg tgccccacgt 60
 gcagactaga agaaattaac tgggtgttttg gaaccttttt acgtgcaaac ctttgaaat 120
 gtgctagaaa cccaagcatt gaagaattaa attactgtgg gtgggaaaca cacgggcatt 180
 gtgcattatt gcattattac atttggtaag gtttagtaag gtttaggaaa ggcatagcct 240
 tgggtgttat tcttgaacac attgaattcc ttttgtgggc tcaggtgtag gaaaggcacg 300
 agccagaatc catatagga attgaatacc ttcaaactctg gtggtctgga ggaattctag 360
 agatttaacc cactgggtggc ctattttttaa acaacaaca aaaaaacaaa aaaaaaaaaa 420
 caggcggggg gcggaacccc gggc 444

<210> 69
 <211> 273
 <212> DNA
 <213> Homo sapien

<400> 69
 ctgatataga tgtaattgcc aaaaatatta tagaaaactg gctccggttt tcacatagtg 60
 tggagtgaat aaacacaaat ccagattcac ttcagaaaaa aaaaaaaaaa aaaaaagggtg 120
 gggcggtaac catggccgac agctgggtccg tgtgtgaaat ggtttcccggt cttccatccc 180
 catttcgacg cccaaaaagg aaaggggaag aaggaagacg gacaacgaag ggtcagaaag 240
 gaggcaccag cggcagaggg aaaagctacg gga 273

<210> 70
 <211> 1397
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (255)..(255)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (259)..(259)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (325)..(325)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (354)..(354)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (356)..(356)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (623)..(623)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (628)..(628)

<223> a, c, g or t

<400> 70

```
gcgtggtcgg gccgaggtac actcttcccc tctcgggtcc cacaggcaac gttaccatca      60
gaaaaaaata agtttcaggg ggcaggattg gagggggggg ggagcgaggg gatatgtggg      120
taaaaaccag gtccaaatct caccaataga ggaatttttc aaaatagagg ttattcccac      180
attagatcca tctcatcctt cctctccctc tatccttcag aggttcctct cgttttcgcc      240
ttctctgtaa cccncttnt ctcttcttcc taaccacaag cctctcttcc ttctaatactc      300
ttctcctcgc gtctaactct atacnctctc tctccaatct gggtatatat accnctat      360
ctcttctaata ctccatctc ctctcactct cactctctct cacacactct cacaggctctc      420
gctctcgtc tcttctcaca ccttctcacc tctcactctc actctcaatc tcactctggg      480
ctcactctcc tctgggtctct tctccacat tacacgctgt gagacacatc tcttcccatc      540
tcatacactc tcgctctcgc tctcaatctc gctctccatc tccctctctc ctgctctca      600
tctcatctca ccagaggggc cncctctncc acagggtatag acgccccctc tcagacaatt      660
ctccggagag tctcaggagg gggcgccctc tcaactgtgtg tctcgggtct cccccggcg      720
tctcaatatg gcgcgggtct cggagacgat cacttgtgtg tgaagagttt gccgcgggtg      780
gagagggaga ctttgtgac acccacacca attttttct ctctgggggg ttagagttct      840
cgagtctccc agaagggttt ggggggttaa aaacctctg cgcgcaaat ctgtgacaca      900
caagcgggtt ctctataaga gcctccctt gggacgaggg gttctatttc ccctaaaacc      960
tttttttcc acgagggggg gccatcccta tatgtgggtg gtgccctgtg aagggggtcc     1020
ctctttaaac atcttctctg tgttttgggc ccacctttt ataaacattt ttaacgcaca     1080
tgtgcccttg taaaagggtt ttgcgggaca ccacctctt tattactcag ggcccacaat     1140
ttataccttt tcccgaagag gtgccccccc cctctctga agggaaaaaac ttccctgcgg     1200
ttaattaccg ggcgtattaa gaggtttcaa aacagggccc tttggagggc ggggttaaaa     1260
ttccaattgt ggggctcgcc aattaaaggc ctggggtgtt tccccctggg gttggttggc     1320
gacaaaacat tcgggggtct aatccccggg gctctcacca aattcccccc attcctcaag     1380
cgacccagac ctacacg                                     1397
```

<210> 71

<211> 844

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (595)..(595)

<223> a, c, g or t

<220>
 <221> misc_feature
 <222> (644)..(644)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (695)..(695)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (758)..(758)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (783)..(783)
 <223> a, c, g or t

<400> 71
 gcggccgccc tgggcaggct ccccccttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 taaaaaaaaa aacacccgag gatgatgagt gggggggggg agaagaagaa gaaagaaaga 180
 atagtgggtg gtggttggtt gttatataaa aaagatgggt gtggtgtttg attgtgatgg 240
 agagaagagg aggtgtggtt cttgttggtg agatagtggt ggggtgtggtg tggaggtcga 300
 cacaccagc acaggcaggg tggagtgccg tgaatcagct atctgagaga gagagagagg 360
 agagagtata tatgtagggt gtgtgcgtga cacacaaatt ataatgtgta gtgtgtgtcg 420
 tctcgtctct gctgctgaga gatgagagag agagagagtg tatatatatt gttgatacac 480
 acacacacac acgacaccat gcgtcgtgtc gtagtcatca tcaacaacat caacaacaaa 540
 ataatagtaa tagtagtcat cgtctcgag cagcagcgcg agaagatga tgatnagagg 600
 gtagtagtgg tgggtggtgat gatgatgaga gtgatggtat acgntctgta gtgtcatcag 660
 tgataggtga gtggtagtga tcatcatgat gaganaagaa ctaaataata atgatcatgc 720
 atcatcataa taattattac tagtagttcg tgggtggtngg tagggaagat ggtgcggagc 780
 aanatagaga agtaagagca gcaggtagct gctgctgctg ctgactgatg actgatgatg 840
 atta 844

<210> 72
 <211> 738
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (327)..(327)
 <223> a, c, g or t

<400> 72
 gcggccgccc gggcaggtgg acgttggtgt tagaggttag catacgcac aaggcacaag 60
 taagctacca tggactcccg caagttttgc caataaccct cgtgatgcgt ggccttcttg 120
 tcacagcgcg tctcgagaa gatcactatg gctgtagcat ttcagtcgct aatcccgtgg 180
 gggttgcagc tctgtgtcaa taaagttgcc gctgatgagc ttgtactcac aaggaaaatg 240
 aaggctaagt acgcaagtat ttctagcaga caacatactg attgatacga atgacatacg 300
 attatagagt ggacgatgaa cgagaanggc taggatatct ttgtcaggaa gtagtcaatg 360
 tcattcgttg tgaataatca caagaatctt ctatacgagg ttggattata ccataggaag 420
 ttatggctga cttgacttgt gtggtatcct tggaaacatca tagactacaa tagaatcatg 480
 tagggctaaa aggaaagact aagctttccc ttcctttgga agtaaacatt aaaaaccaa 540
 ttataacaa aaaccgaaaa gagaaacaac atacaacaga acatcaacaa aacagagacg 600
 cttggggggg aaaactctcc gtggggctca atataggcgt tgtattcccc cgcgtgtgtg 660
 gtggaaaaat gtgtggttat actcgcgggg cccacaaaaa ttctcccaca cccaaatctt 720
 tcggccgcac gcaaaagg 738

<210> 73
 <211> 292
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (236)..(236)
 <223> a, c, g or t

<400> 73
 gactaagcat aatggcgact ggcccatcta atgctttgaa cggcgcagtg tatgatgaag 60
 ctgaggtgga ggatacttaa gccaggagca gaggtcacia tgaagcgaaa tgtgcaactg 120
 cactccagcc tgggcacaga ggaagatctt cacagaaaaa aaaaaaaaaa aaaaaaaagt 180
 ttggtacatg gcatctgtcc ctgtgtgaat gtatcgcggc aatcccaata agaagncgcc 240
 acagaataga gagaaataag ggaacaataa taccaagcga agaaaggaaa ta 292

<210> 74
 <211> 785
 <212> DNA
 <213> Homo sapien

<400> 74
 agatcatata gggcgactgg gcctcctaata catgctcgag cggcgcgatt gtgatggata 60

ggcgggcgccc gggcaggtac ataaggtaaa aataaaatcc taagcccccc attgacaaaa 120
 gggaccttct cctgaccaag gggatcacca gaaaaacctc aacactgaat tcccagaaca 180
 tgatgggatg ggaggtcatg atgcgcctgg taatagcccc ctgtttcaga gatttggtac 240
 taccacaatc tggggcgggc attcatgtta aaacagagat cgtaagactg acagaacgga 300
 ctctgtggca ataagatacc aaattataaa caggacccaa agccatgcta ggcgagggtg 360
 agtcaggcaa cccacactta gagaataaac tatattctaa gagccacaag gctttctgtt 420
 tctctattag ccaaacacac actagccttg ggatagggaa tattaaaaca attgcagctc 480
 cactaggtgc caactaactg actctgtttc accagccata gcagctgtga ttggacaaga 540
 gactgatttc agtgactttc tctaataag agaccaccga cagctgacat gccgacagct 600
 gaccggttaa tagagagaga tgatgcacct gcctgccttt gtgtctgaaa agacgtttgg 660
 cataaaggcc ctaattgtag atgtgtaatg taagtctcca cccaagtga catgggtcct 720
 attttcatgt tgctcaaaaa ggggtgtgtc ggcaacttatg aatatagtcc cggtagctga 780
 ttgtg 785

<210> 75
 <211> 1226
 <212> DNA
 <213> Homo sapien

<400> 75
 ggcttctttt ttcatatgac atgtatctac catcctttga gtacttactt attttctggg 60
 acaaccagat gttcaaggat cctccccctc tctgccagg cctggcatca gccattgttg 120
 gcaggagata atttgagcag atcgtgtgga tttcagaagc atgaaaacta ctgtgaggat 180
 taaataagtt agcatgtata acattctggt gcttttgtgg agtttccaaa ttgtcatgaa 240
 caagcactac tttatagaca ggaaaaaaag tgattcaaaa tgtgaaaacg ggtatatgta 300
 aaaataaaat cctaagcccc ccattgacca aaggacctt ctctgacca aggggatcac 360
 cagaaaaacc tcaacactga attcccagaa catgatggga tgggaggtca tgatgcgcct 420
 ggtaatatgcc cctgttttca gagatttggg actaccacaa tctggggcgg cgattcatgt 480
 taaaacagag atcgtaagac tgacagaacg gactctgtgg caataagata ccaaattata 540
 aacaggaccc aaagccatgc taggcgaggg taagtcaggc aaccacact tagagaataa 600
 actatattct aagagccaca aggctttctg tttctctatt agccaaacac aactagcct 660
 tgggataggg aatattaaaa caattgcagc tccactaggt gccaaactaac tgactctgtt 720
 tcaccagcca tagcagctgt gattggacaa gagactgatt tcagtgactt tctcctgata 780
 agagaccacc gaccagctga ccatgccgac cagctgaccc gttaatatag agagatgatg 840
 cacctgcatg cctttgtgtc ctgaaaagac gttttgccat aaaggcccta attgtaagat 900

gtgtaaatgt taagtctcca ccccaaagtg aacatgggtc atatattaca tgctttgctc 960
aataagaggg catgtgtcag gaccaccttc atgaatattc atagctcctc ctgttacctg 1020
ttgaatatgt atgttttagcc aatcccttca gcatagcggt cctgccccaa cccctcctcc 1080
ttggacgtgc ctgtctctgg ccttgggtgg agacagattc ccagcctcag acagatggcc 1140
gccaccttgc aggctacgac cgttttacaag aaataaagcc ttctcttttt ccaaaaaaaaa 1200
aaaaaaaaaa aaaaaaaagg gcggcc 1226

<210> 76
<211> 792
<212> DNA
<213> Homo sapien

<400> 76
gcggccgccc gggcaggttt tttttttttt tttttttttt tttaaaaatg gagtctcgct 60
ctgttcccca ggttgaattg caggggtttc atttgggtc acgtgcaacc tccacccccg 120
ccggttatca agaaattctc tgtgcctcag ccactcctga aatagcgtgg gaccatacag 180
gacccccata accacgcccc agataattga ggcgtattta taataaaaaa caagggtttc 240
acacacatgt tatggcccag gttgtggttc tcaaactctc gtgacctctc aggtgtgacc 300
tccaccgtgc cttcgagctt ctccacaaca aggtgcggggg attacacggg gtggttaaggc 360
caccacaccg cggccttgac aaattgactt gtggagctca tcagttagc gcactcaaaa 420
agttcaacaa atttaggcga acatttctca aaattacaag agattatagg cgctacagga 480
gaattgtaca cacattttca atatagtgtc cacagtggcc gtagttctgc atgtgggggg 540
aaaaaataca gggcgctcaa ttaattagat gttcaccatt caccgagtga ggatcccca 600
taaaattttt aggcgaccac atatacttat tggctccgtg ccaattcctt cattattccg 660
agggcccaaa cttttcttta ccagctcatc agcgatcatg ggaaaccctt ttgtagttta 720
caccacaag agggttggca ggtggaataa gcccttttac gttatgttgc ttatgaaggt 780
gatatcgcta tg 792

<210> 77
<211> 946
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (177)..(198)
<223> a, c, g or t

<400> 77
ttgcaattgc attggtgctt gtggatggcc atctctgttg atttttgtga tttgggttgc 60

ttgtgttttta ttgaaagga caaatgagag aagtgttttt catataattt tatacctttg 120
 caaatgggtt aaacttttca ttttgatcaa gaagatgcca ttgtttaaaa tggtagnnnn 180
 nnnnnnnnnn nnnnnnnnga aatggagtct cgctctgtcg cctaggttga attgcagggg 240
 tttcatttgg gctcacgtgc aacctccacc cccgcgggtt atcaagaaat tctctgtgcc 300
 tcagccactc ctgaaatagc gtgggacat acaggacccc cataaccacg cccagataa 360
 ttgaggcgta ttataataa aaaacaaggg tttcacacac atgttatggc ccaggttgtg 420
 gttctcaaat ctctgtgacc tctcaggtgt gatctccacc gtgccttoga gcttctccac 480
 aacaagggtc ggggattaca cggggtggta aggccaccac accgcggcct tgacaaattg 540
 acttgtggag ctcatcagtt tagcgactc aaaaagttca acaaatttag gcgaacattt 600
 ctcaaaatta caagagatta taggcgtac aggagaattg tacacacatt ttcaatatag 660
 tgtccacagt ggccgtagtt ctgcatgtgg ggggaaaaaa tacagggcgc tcaattaatt 720
 agatgttcac cattcaccga gtgaggatcc ccataaaat ttttaggcga ccacatatac 780
 ttattggctc cgtgccaat ccttcattat tccgagggcc caaacttttc tttaccagct 840
 catcagcgat catgggaaac ccttttgtag tttacacca caagaggggtt ggcaggtgga 900
 ataagcccct ttacgttatg ttgcttatga aggtgatatc gctatg 946

<210> 78
 <211> 895
 <212> DNA
 <213> Homo sapien

<400> 78
 tgggtcctct taatgcatgc tcgagcgtgc gccagtgtga tggatgcgtg gtcgcggccg 60
 aggtccctcc cctttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 taaaaaaaaa ccccgattt ttgggggggg ggggggaaaa aaaaaaaaaa ggggaatgtt 180
 tttaaaaaaaa agaggggttt tctccactca gggtgattaa aatgaaggag tatatatgtt 240
 gtgttgaggt ggtggtgggg ggtgaggtgc accccacatg tggtgctgct gggacaaact 300
 attgttaaga agtggttaata ttagggcgtg ctacactact ttacttgttg cacctccgca 360
 aagaagcagc ataagtattt cttttgtgta acacgaaaac aaactgtgtg gctccatcca 420
 cacaccacac ataataattt tccctcccca gtagtgatta aaaataagtg gggggggtaa 480
 ataggcaaca gtttttcaac gcaaaagctg ttgctccaaa aaaaagtctc tccacaaaaa 540
 tagtcttctt tgagtggggc ataactaata tcgttggaac ctctcctgt agagaagaag 600
 atatatattat attacgcgca cagagtgtgt gaaatcgagc gcgtctttcg aagaagtatg 660
 agtgaagttg tgactgcac gcgggaagac aaatataatt ctaatgtgga cagaattatt 720
 aatcctccgg gcggggcgcca ctattattat aaaaaaatat tcatgtcggc cctgtaaaaa 780

[illegible]

tggccacgtg cactccagcc cgtgggctaa cagagttgag actcgtgtcc caaaaaaaga 360
 aaaaaaaaaa acaagattcg tgccaatgga gtgtgttttc tgaaatttta tcctgaagct 420
 tgttgaaaaa tttttcaaac aaatgtgccg tgagggttttc ccaccagggg ttgtgacact 480
 tattttaaaa ttccctgtgt cagccactgg tttgttgaag aaattcctac gtgggtcttac 540
 cacattcttt cacccaaaca ttggcatcta caactaaagg tgccctttta aatttaaccc 600
 attttgggtt gcgatcgggt ggtagtgggt gtccggccat tggggcgggt tatcccacct 660
 tcggacatta accggaatgg cctaagggat tattaagcgt cccctttttc ctttttgacg 720
 acacacactc atacacacag cgaaaacggc ttggggcgac acccagggcg ccaaaacggg 780
 agtctccggg tgtaaaatgg gtacccgggc caacaatccc caacattact cagcacacag 840

<210> 81
 <211> 864
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (568)..(568)
 <223> a, c, g or t

<400> 81
 gcggccgcgc ggcaggtccc cccccctttt tttttttttt tttttttttt tgggagaggt 60
 aaaaattttc ttttattcca cggaacaaat gttttattat ttaaaaaagg gggttttttt 120
 tttttaacaa tttttggcga aaatttatat cggagatagg ggggtgtaaac ccctgggata 180
 gcgctttggg tataatagtt cattatcagg gggcagatat tattaggagg aacaaagggt 240
 acaaatactg gagtttgggt ataaaacatc ataataattat ggggtcttgg tgggagatta 300
 taaaccgcat tacaccctc tcgtgttaca caccggtgga ggcaattaaa ttgtgtggca 360
 gctttccacc aacacactaa agtgggtgtg gctttctcag taacacacgt ggttgaggga 420
 acatccacat tctttttcgt gcaagaaggc ccctgcagtt tctacaaatt catgcacccc 480
 caaaccatct cctccttatt tctctgtgct atacatttat ttataaagcc atatttatat 540
 attttttctc atacgcccaa ctgcgggnct atagaataaa ctccataagt gggcataagc 600
 attattcggg ttccgagtgg gttattcctc aggtgtgtaa tatctataga tatgtgggtg 660
 ggggcggtgt gcgtaacact acggttaagt caccaaattc gttttatata gttaccccca 720
 aaatgggttg gtggcggtta aaacttctgg gcaggttatt aagactgtgg togcttaaac 780
 atctatcggg gctttctcta caaagggacc tttaatacgt tttattgtaa tccttgaggg 840
 gttgaaggga ccacataagg tatg 864

<210> 82
 <211> 896
 <212> DNA
 <213> Homo sapien

<400> 82
 gcggccgacc gggcaggtgc cagcgcaggg gcttctgctg agggggcagg cggagcttga 60
 ggaaaccgca gataagtttt tattctcttt gaaagataga gattaataca actaccttaa 120
 aaaactacta gtcactacgg ttacctacac gactacttgc ttacggcggtt aagtttttta 180
 tagcgtagag ttgttacata cgccttaacg acttcttaac gagacgaact actgacggga 240
 ccttacgaca cgacgctagc cctgacgcga acggacaaca cgactagcaa cggttctctt 300
 caaccaccag ttgcacgtga cgggtctgca cgactgcaag cgttcgcgcc ggttcagcgt 360
 cactgcgcgt ctactaacgc tcgctctctc gcctcgctgc tcgcaccgac tccgctctca 420
 ctccctggct tccagcggcg gtgtcgccac agccacctcg tactcgccgt atgtcgatgt 480
 cctgtggtgc gggcgcgcc ctccgggttt gcgtgtcgtg gtggctgtgg gtgggggggc 540
 gtgtgggggc ggtggtgcgg ccgcgtgcgc tgtggtcggc gtggggggcg gtgggtggcg 600
 gcttgctctg cgtgggtgct ctcttctggt tgtgtgcggg gcggcggggg gcgcggctgc 660
 cgccgtcccc ctgcggtgcg gttgcggttg cggcggtcga cgccggcgcg gcggggggcg 720
 tgggtgcgtg tgggtggggtc gtcgtggtcg ggcgttggct tgggcgcctg ggggtgggtg 780
 tggggcgggt gtgtgcgcgt ggtccttgct tgtgtcgcgg cgggtgcgtg gcggggcgcg 840
 cggggcgcgg ggggggcggg cggcggggcc gtcgcggccg ggcgcgtggt cctggg 896

<210> 83
 <211> 954
 <212> DNA
 <213> Homo sapien

<400> 83
 ctagatccat tgtcgagcgg cgcagtgttg atggatgtcg cggcgaggtc ctcccccttt 60
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt tttttaaaaa aaaaaaaaaa ctctcttcta tcaaaaaggg 180
 gggggggggg gcccgggg gggggggggc ggcccccggg gggggggggg ggggggaaaa 240
 aaccacaaaa aagaggcgaa caacaagcgg gccgtagtca cacgacacca cccccaggcg 300
 caccaccccc caccctggg agaaagagag ccctctccga gagaggaagt cgtcgacgca 360
 cctcaccaa acgcgcccc ccccccaaca ataatacaca aatacgcgag acaacaacca 420
 cgcgccaccc acaccgggg cgggcgcgc tccctctct tccgtcttcc cttctccgc 480
 gcggtccaac atcacactcg tgctcctcat ctctgtactc ctctctgagt gcaaagacga 540
 ccacccgacc cccctctacc tccccccca acaccgaagc gtgcggcggt caatccaccc 600

tgctcaacaa aacactatcc ttccgccctg cgagcgcaga attccttctt cgccgccgat 660
 caacatcccc cacaaatata actcctacga cactctcatc cctccccctt tctcctccct 720
 cacctccatc ccactcctcc ccccatcccc cctccactcc actccatcct ctactccctc 780
 cctttccctt acacctctcc cccactcac ctatctctcc ccaccctaca ctaatccata 840
 cttatcacaa ctatttctca ctcttcaatc tcaactaacc tcactcctac ctctccacc 900
 atactctcta cccccaccc ccaccacac caccacactc ccacctcaat acac 954

<210> 84
 <211> 918
 <212> DNA
 <213> Homo sapien

<400> 84
 gtaagagagg aaataatata tatagggcac tggttcatct agatgcatgc tgcagcggcg 60
 cagtgtgatg gatgagcggc gcccgggcag gttttttttt tttttttttt tttttttttt 120
 tttttttttt ttttttttgg aaaaaaaatt ttttaaaaac ccccaaaaat ttcccgggca 180
 aggggggctt ccccccgga aaaaaaaaaa aaaaaaaaaa atttgggccc tctgggggtt 240
 acccctctcc ctagtggggg gataaaaaat aaccacacaa taatcacctc ctagcgatca 300
 accggccgcg ggaagacacc aaagcagcgg gggggggggg ccaccccaca gctgaaccgc 360
 gtgggggtggc aggggagggc ctcggtcggtg ggagccccgc gtggggagac agcagcggaa 420
 aacaccccc caaccacagc ggtggacgag aaaaccccc cccagagacg ggggagcgat 480
 ctcccctctt ctccctatag aacgcctcct ctctaacaca cgcgccgagg gccccgcggt 540
 aagctcccaa agaaaaatct atctctgata gagagtgaac acccctcgat ctacttcaaa 600
 gaaaagagtg aagaagagac ccgcgcgcac ccgagagcaa cgcgagagtg aagcgcgaag 660
 agacgaacaa gagaacgctc gccgtgcgtg agacacgtag agaaccgccg ggtggaggag 720
 aagaggagag atatcatacc tccctctctg gtggggaggt atgtgggcgc gcgctccaga 780
 ctgcttgctg gcgcgagacg tctcatgtga gcgacaaaaa gccagtgtgc acccctgcgt 840
 gtgtgaaaga aatttgcggtg ttctccccg cgacacaaa attcctcca aaaattataa 900
 ctgaacaaaa ccaaccgg 918

<210> 85
 <211> 728
 <212> DNA
 <213> Homo sapien

<400> 85
 gaggatgatc actcatatag ggccatggtt ccatctagat gcatgctcga ggggcgcagt 60
 gtgatggata gcggccgccg gggcaggtct tttttttttt tttttttttt ttttttaaaa 120
 ggggcaaaaa ttctttttat ttattccatt ctccccaaa attagcataa taaaacccaa 180

```

gggaggagga ggggggtaga aggtagacaa gatagagtct gggaggaccg acaaaagggtg 240
gtagtgcccc ccgtggaaaa ggttgtagag aggccaaatg gatggggagt ggtggtacag 300
tgcttgacc tagaatgagc acgtgggggc acttctcccc ttctaacatc ttctcccctg 360
ttagaagtct tctttgtaga aggggcatg ctcaaggccc tggaatgggg tgagacattc 420
agaaggctgt aaaacttttg tggctctatc gaaatctggc ttcgagcacc accgtaaggg 480
gtgcggcaaa gaggtggaag tgtctcgcc ctggagtagt cctggcttct gtgacactct 540
cctgggagag gtacaccggt atgggggggg ggcgtaacac aacggctggg gtggacacca 600
tggggcgcat aagactgggc cccggtgtgg ggagaatggg ttaccccggc tcacaatccc 660
ccaaaaataa tggcgaaaca atcagacaaa actcccgctg agacagggaa cacaagacaa 720
cataataa 728

```

```

<210> 86
<211> 265
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (198)..(198)
<223> a, c, g or t

```

```

<400> 86
cttaggaaaa tcaaggccgc aaaggcaaat aaatcttggt tgtcttcacc catgtgaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaagttggg ggggtattcta ggggtctata agtctgtggt 120
tctgtggtgt gtggaatatt gtgtttatcc cggctctccac atattccaca cacacaatct 180
attacggaag cacaagcncg acagacaatc aacaccgatc acgtcgtata tctataacca 240
gagacgtagg cgacacacga ctcac 265

```

```

<210> 87
<211> 430
<212> DNA
<213> Homo sapien

```

```

<400> 87
tgggccacta gatgcatgct cgagcggcgc gggcagggtcc cccccccctt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttaa aattatattt tttaaaaagg 120
ggaatttata aaaaaaaaaa aaaaaagggt tgaccccaa aaaaaattaa aaagtggggg 180
gcataatctc gggggcaaaag ggtgtaccgg tggggacagg tgttaccgc cacaaaattc 240
caaaaaacaa acgaagaaaa aacagacaga gcaaaagaag cagagcacac cactgcagcg 300
cgcacccagc aaagatagaa agcagacaag agacatatcc ggtgccggaa tcaccctggg 360

```

48

cagacgcggg gtcggcgggc atccacgcgc ctcaccacac cacggcaaca acgcgccggc 420
gggcgagggg 430

<210> 88
<211> 868
<212> DNA
<213> Homo sapien

<400> 88
gagcggccgc ccgggcaggc ggcagcactt gtaaaaataa agcagtaagc aaaatccttt 60
taaaaaaaaa aaaaaaaaaa aactcggaaa gaaaaaaaaa aaagaaaaaa aaaaaaaaaa 120
aaaaaaaaaa taaaaaaaaa agaaaaactg gcgcacgatg tcagggcaca tctacagagt 180
gccaggggaa cgtggtccac aagattcatc aatgggggag catccagtcc agatgacaga 240
ccacagttaa acaagcatca cggaaactct tatgacatac atcatggata aactagattc 300
cagtaggtat ggaaccaact gggtgaaacc acatgtccaa acatactagc aagtaggcac 360
agcaacaggc ctatgaatag tgatccgccc ataacagtgg gcaagcagcg actagaaaca 420
cactcctcaa gcaaagtcca agcagcaaga gaaagagcca tcgaatagga gacaccgggg 480
aagaaaagaa caccatagct aaacaaacat acagacaggc aaaagacaag cgttaaacga 540
tgtgagaaag gaaaagaata tagaagtata gtcagtcgaa tatatatata agctgcacga 600
aaaattttaga acataataaa caaacaagag agatgtcaca tatatggggc agccaaatat 660
atttcagaga tggtgccata aatgaagttc aacatacatt taattgcaga gatgttacc 720
ataaaatggt gtaataaaaa gagataataa ggaatgaata ctttaaaaaa gatatatattg 780
ggctagaaga ggaagacaca aaaaaaaaaa cagaaaaagg gaaaatatag cgggaagagc 840
agaacagagt gaaaaaggaa aaaggtag 868

<210> 89
<211> 1682
<212> DNA
<213> Homo sapien

<400> 89
ccacggaagc ccttttcacc taccccaaag gagctgdaga gatgttagaa gatggctctg 60
agagattcct ctgcgaatct gtttttagct atcaagtggc atccacgctt aaacakgtga 120
aacatgatca gcaagttgct cggatggaaa aactagctgg tttggtagaa gagctggagg 180
ctgacgagtg gcggtttaag cccatcgagc agctgctggg attcaccccc tcttcaggtt 240
gatactgcct ggatggtcac ctctggtgag cagcaagtgc aaagccagtg ggggactttc 300
tcacagctta catagccatc cagagatcca cagctacgtc actgaattgt taatgcacat 360
ttgtacttgg tttctctgta tctattcaca ggcaacaaat acttatatgt gtgatctttc 420
agggaatggt ttgtttatct gtttttaaaa gtattgggaa tcagattaag acaatcagtt 480

tcagagaacc aggaggtttg ggggtaagag atactcaaaa attttcacaa gccaaagtagg 540
 gcatatatca gatttgGCCa actgaatggc gtctgtcctg tcatccatat ggtgcctgga 600
 aatatttacc agtcaaggtc aaggtcagca tctgtgggta aaaatatagc attctgacct 660
 aaaaaagtta ttttgcagat gaatgtgttt tcaactcagg acctatccaa atgaggaatt 720
 tttaaatatt cttttttttt tcctattttt agacatcaat tctatagatt ctgacttttt 780
 ctaacctctt atagacatgc caaatgctgg caaaaagaag tgcttttttg atatggcagc 840
 acttgtaaaa ataaagcagt aagcaaatc ctttttaaaca cagaaaaaaa aaaaaactcg 900
 gaaagaaaaa aaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaagaaaa 960
 actggcgcac gatgtcaggg cacatctaca gagtgccagg ggaacgtggt ccacaagatt 1020
 catcaatggg ggagcatcca gtccagatga cagaccacag ttaacaagc atcacggaaa 1080
 ctcttatgac atacatcatg gataaactag attccagtag gtatggaacc aactgggtga 1140
 aaccacatgt ccaaacatac tagcaagtag gcacagcaac aggcctatga atagtgatcc 1200
 gcccataaca gtgggcaagc agcgactaga aacacactcc tcaagcaaag tccaagcagc 1260
 aagagaaaga gccatcgaat aggagacacc ggggaagaaa agaacaccat agctaaacaa 1320
 acatacagac agggaaaaga caagcgtaa acgatgtgag aaaggaaaag aatatagaag 1380
 tatagtcagt cgaatatata tataagctgc acgaaaaatt tagaacataa taaacaaaca 1440
 agagagatgt cacatatatg gggcagccaa atatatattca gagatgttgc cataaatgaa 1500
 gttcaacata catttaattg cagagatggt acccataaaa tgggtgaata aaaagagata 1560
 ataaggaatg aatactttta aaaagatata tttgggctag aagaggaaga cacaaaaaaa 1620
 aaaacagaaa aagggaatat atagcgggaa gagcagaaca gagtgaaaaa ggaaaaaggt 1680
 ag 1682

<210> 90
 <211> 959
 <212> DNA
 <213> Homo sapien

<400> 90
 ttgggttatc taatgcatgc tcgagcggcg ccagtgtgat ggatcgagcg gccgcccggg 60
 cagggtctccc ccccttttta tttttgttat ttgggtttta tttttttttc tttgtgtttt 120
 atatttgttt tgtttgttta tatatttctt attattaatc ttgttgttgc atatatttct 180
 tttgtaatta atttcattat cattgtttgt ggcattttga tctattggta gcctatggag 240
 ccatgagcca atgaggatat atagagaaca agagctgcat gatataaaa aagcctggca 300
 agcagcaatc atcagacaca caacaggagg aagggtgtata ttcccaggga gggagtggtc 360
 agtccccaag gacccagtca gctgccatca gatctctgga ttctgaaaac ataactggca 420

tcaacactgg ggtgtaagaa acatgctatg cactataatt gtatcagagg acatagctac 480
 agcagatccc aacgagataa tcattccggg aaactatatc cttctagcaa caacggcaca 540
 ataagggtat catttcatta catatttccg agtctctccc tcggcggcta gcgagacaac 600
 atcataggca cgacaagctc ctatgactgt tactttgccc aggcatgcgc actatgatga 660
 catgcgacaa aattcaccac gtctccatat cgcaatctct acaaatacaa tcacacaacg 720
 agcccttaat gcaacagtc catcccccact ctttgataag cctcgggaaac ataacagctt 780
 acaccatgaa caacccttg cgctacgcag attcttcaca tcactcggtt gaaaacagca 840
 tccttctaac tgtaaggccc accgtcttgt tccctagggc atctgtcgag ctccagaatc 900
 ggccctcctg cgatcaacct tctcaacggc tcatgtccca atttgtagcc cttgattcc 959

<210> 91
 <211> 737
 <212> DNA
 <213> Homo sapien

<400> 91
 gagtgatcac tatagggcgc ctgggtcctc tagatgctgc tcgagcggcg ccattgtgat 60
 ggatgtctat agtgtaactg tttgagacat atcagatgga gaggaatgct atgggaacaa 120
 gtcctaagga accaggaaga cactggggat caagatacca gggaaaagt agcttttaga 180
 gaagatggca tttctttctc tgaggataga gggctaggca cgtagagaca cactttgagt 240
 aatataagtc ctttgttgga aggaagcaat aaggattggt agagaaaatg tggagaat 300
 tctgagcaat gatcttcact ttattgcaat aggccttct atcgaaagaa taaaaatgg 360
 aatttataaa actgatcaaa gcaaaatagc caaactgaag caggaggaaa gctagagact 420
 cacacatgag ggtggccccc acattgctgg tctaacatcc aggcacataa accactagta 480
 aaaggcacac aaagactgaa taaaggcttt ctagaaatgg gtagtgacag cagcatcctc 540
 cattctat 600
 cttcacttca gaaatagaag tcaaaaacac tgattttaag tgattcataa 600
 ttgaaaaaca atgtcatata ttcaagaggc cttgagattt tagattaata ccataaagga 660
 aaactggaag ggggtaacag ttagaaatat cacatcacat ctagaagtgc aatgagacta 720
 gactgcatag gtgatgg 737

<210> 92
 <211> 601
 <212> DNA
 <213> Homo sapien

<400> 92
 tgcgcaaccg tgaatgatca ctatagggca catgggttat ctaatgcatg ctcgagcggc 60
 cgcagttgtg atggataagc tggggcaggc agatcatgtg aggttgggag tttgaggtca 120

gcctgaccaa catggtgaaa acctgtctct actaacaata caaaattagc tgggtgtggt 180
 ggtgcctgcc tgtaatccca gctacatggg agtctgaggg agaagaatcg cttgaacccg 240
 ggaggcgggg gttgtggtga gccgagattg cgccactgca cccagcctg caacaacagt 300
 gaaactctgt ttcaaaaaaa aataataatc aaaaaactta gccagacgtg ctggcgca 360
 cctgtggtcc catctactca ggaggctgag gtgggaggat cacttgaaac tgggagttca 420
 agtttgagct gagctatgat caccacctca cactccagcc tgggcaagag tgacacccag 480
 cctaaaaaaa acaacaaaaa aaaaaaaaaa aaaaacacct gggggatacc ctggggcaca 540
 ggggtgttccg ggggtgtgaca aatgggttcc ggtcaaaatt ccccaaaaat cgcagaaaag 600
 g 601

<210> 93
 <211> 323
 <212> DNA
 <213> Homo sapien

<400> 93
 tcgatataat agcgaattgg cattaatcat ctgacggcgc agtgtgatgg atcgccgggc 60
 aggtgtgggc cagcctgta gcccagcta cttgggaagc ttgagacagg agaatcgag 120
 gaatctagga ggaggaggtt gcagtgagcc gagatctcgc cactgcactc cagcctgggc 180
 gagagagtaa gactctccgt ttctcccaaa aaaaaaaaaa aaaaaaaaaa aaactttggg 240
 gtattattgg tcatgtgttc cctgggtgaa atgggttcc ggtcaaatcc aaattgataa 300
 aaataaaaag aaaaagtgc gat 323

<210> 94
 <211> 625
 <212> DNA
 <213> Homo sapien

<400> 94
 aggaagtccg ggaaaactga tgctatatag ccaatggcta tctgatcagc cgagcggcgc 60
 aatgtgatgg atgcgtgcgc ggcgaggtag ttctgtggta gtaggtctt gtcacatcat 120
 gcactaaaaa cagaatgtga ctcaaccttt tctactgctg actgagttgt gatgaggctt 180
 tttctttcta agaagtgttt aaattaccac atagtccagg aatcacggac agtaacacta 240
 acactttcat ctgtgtgggc caggagttgg gcatgtagtt taatgacgta taatttttga 300
 attccaagca tagtttgaaa aaatatgaaa atcttagcac ccagcacatg cctattaatg 360
 aagaagttct cagcagctgg cagaaatgca tctgtgtaga gagacacagg cggaacaggt 420
 ggcaggggtg ggcgtcatct ggaggcctgc gtctgggctg agtgacctc gttcttaggc 480
 tgccgtgtgt gggaaacgtg aagatgtgcg catttctccg gcccctatgct gggcacttgc 540
 tgcaggccct tacccttgct gtttctaaat atcgaacata agaagactgt ccacttctct 600

tttaaatgtaa ggatgttggt aaacc 625

<210> 95
 <211> 810
 <212> DNA
 <213> Homo sapien

<400> 95
 aggaagtccg ggaaaactga tgctatatag ccaatggcta tctgatcagc cgagcggcgc 60
 aatgtgatgg atgcgtgcgc ggcgaggtac ttctgtggta gtaggggtctt gtcacatcat 120
 gcactaaaaa cagaatgtga ctcaaccttt tctactgctg actgagttgt gatgaggctt 180
 tttcttttcta agaagtgttt aaattaccac atagtccagg aatcacggac agtaacacta 240
 acacttttcat ctgtgtgggc caggagttgg gcatgtagtt taatgacgta taatttttga 300
 attccaagca tagtttgaaa aaatatgaaa atcttagcac ccagcacatg cctattaatg 360
 aagaagttct cagcagctgg cagaaatgca tctgtgtaga gagacacagg cggaacaggt 420
 ggcaggggtg ggcgtcatct ggaggcctgc gtctgggctg agtgaccttc gttcttaggc 480
 tgcctgggtg gggaaacgtg aagatgtgcg catcttctccg gccccatgct gggcacttgc 540
 tgcaggccct tacccttgtc gtttctaaat atcgaacata agaagactgt ccacttctct 600
 tttaaatgtaa ggatgttggt aaaccaaagc tttatggctt tggaatggaa tttttctcat 660
 ttcctaaaaa taaatggtag aagtaaagta tgctcatcat gagctggtcc caagcgagtg 720
 tttggtttag ccagaaggta aatgggcaag cagcgtgagc tgacagcttg caaaagagga 780
 aatgaaaaag gctgttgtag acgttcgcga 810

<210> 96
 <211> 716
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (590)..(590)
 <223> a, c, g or t

<400> 96
 cgggactgat atatataggg gactgggtct tagatgcatg ctcgagcggc gcagtgtgat 60
 ggatcgagcg gcgccgggc aggtgtttga gcctaacctg atcaacataa caagaccctg 120
 tctctattaa aattgaaaaa agaaaaagaa taaaagacca atttttttta attataaaag 180
 ctaattctgc cagctactta tagtcataaa aggtgaatca actaattcaa catgttctct 240
 ttagtagtca attttttaaaa agcaagtatt aatgggtagt ttaaactt ctgaatacat 300
 taccattgta aagaacaatg tttaaaattt acttttcaa ctaatgcatg cagtttctcc 360

cctttgaaaa acctaacagt attatatgtg gtttagaaca atgtagataa ctttaagcca 420
 agcaacaaat atttgggcat ttgcatggtc tatgaaataa aatgttgtag taactcttga 480
 aaaattaaaa aggactgggt ttcttaataa aatataagca tttaatcaaa aaaaaacaaa 540
 aaaaaacaaa aaacaggcgg gcgggtaact cagtgggcca tagggtggtn cccgtggggg 600
 ggacaatttg gttattcccg gtccacattc accacactac ctcggcacgc gacacaactt 660
 gaccagcaca gcacaagaga gcaaaacaag caccacagca cacaccagca aaaacg 716

<210> 97
 <211> 341
 <212> DNA
 <213> Homo sapien

<400> 97
 agcttttttt tttttttttt tttgtgtttt aaatttttta aaaggtttta ttggcagggg 60
 ggcaggaatt aaacaaaaag ggccaaaccc catgtgttca tcatcgtgac tcttaagaac 120
 tctctttttt tctcattttt tcttcctctt ctgtggtgca gcaggggcgc aaaaccacgg 180
 agcagggggc tggcaaagcc tggggcgagc agacgacggg aacagcccca ccaggcgggt 240
 accacgggca acgctagggg gacaccatgg gccatcagct ggaccctggg gtggaactcg 300
 gtaatccggt acacaattcc cacacaacaa cgcgcaagca c 341

<210> 98
 <211> 903
 <212> DNA
 <213> Homo sapien

<400> 98
 tatcactata tggcaattgt gcctctaata atctcgatgc tggctgcagt gtgattggat 60
 atgtggcct gccctgggca tgtcccccc cctttttttt tttttttttt tttttttttt 120
 tttttttttt ttttttttat aaaaaaaaaa aaccggaaa atgggggggg gagggagagt 180
 gaaaaaaaaa aaaagtgggt gtgaaaagag tgtgtgttcc aaaaaacaag gttgtgttgt 240
 tatgtctgcc ggagaagaag agagagatgt ttattattgt tgtaggagt ttgtggtggg 300
 tgtggtagat gagaaccccc actgttgtgt cgtggttggg catacatatg ttagagaga 360
 gctaagaagt atgggtttgt acaaaacaat gatgtttaac cctcctaata ataactaaaa 420
 acatatatat attatttcca cacacaacaa aaactcgctt tgtccataca acacacacac 480
 aacaacagaa atcctccacc acaatcagtt atacaaagag tgtgttgtgt atattcatga 540
 ctgcacacgt cttacaccac acttttcttt tcacaaaaac ttctcccaca tcaaagcact 600
 ttacttatgt gtgtggcgtg agggctatac atcccttcta ggagaatctc tcgtttaga 660
 gacaaacgat gtccttctta taccagccc cctgcacagg ccacctgcac gtcttcccaa 720
 aacacatgac aattatcgct cctcctccc acacataaac ctccaagagc attgtcttct 780

ccccactcct cttggccac acaatcatac caacacatct aactctcctc cccccacaa 840
 ccctcttctc gctccacaac catcatgtcc caaacctcc cccccctt tttcaccact 900
 tcc 903

<210> 99
 <211> 928
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (778)..(778)
 <223> a, c, g or t

<400> 99
 tactatatag gccctgggtc cttagatcat gctcgagcgg cgccagtgtg gatggatgcc 60
 gcccgggcag gtaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 gggggggggtt tcgtgccatc ctcccgcctc ttctcttct ctattactac tttcccccg 240
 gatcgcgctg cgcgcggggg ggacactcta tattatatag aagagggaga cagacgatac 300
 tctagcaaga gagcagagaa catcgctaag atagggttgg tccccggcga aactattgag 360
 gtcgctcgcca ctatattgga gcccttcgcg tgcgcttgg tgcacacaac accacaatga 420
 gtgcagtgtg tctattgagt gtggttacca taccgcaggc gcgcataaca cctacctact 480
 gcgccaggcg cgctcactct atgttggtgg agtgcccgcg ccggtgtttt ggtatccaac 540
 aggggagggg gggacggcca cactcaatc aacaatcaa tacaccgcac ggcgggctgc 600
 atcttgcgct aacacacatc cttgaggctg ccagcacgac gccgcttcct gttccactaa 660
 ctagtgccaa ccggtccgat atatatgaac cgtggcgcg tgcctccgc ccactaaagt 720
 gagtgtgggtc gatgatcact attataaaat acacacacag cgggagagg ggggaganga 780
 attgattaaa aaacaccctg cttcgtgtat ttaaccgcgc cgagggttgc agaacaagg 840
 aggagcgaac tatctcattc catccacct gacttgtgga ggaggaggag aacacctctc 900
 cctcttaciaa taaaaccgcg cgggcggc 928

<210> 100
 <211> 852
 <212> DNA
 <213> Homo sapien

<400> 100
 gcgccccggg caggtacagg acgccccag actgcagccc ttgtcccagg gcaactgggtga 60
 gcaacacgca gccatattgg aagtgcctgt gtcctgtcc ttcaggcca tcaattcctg 120

ggagcttttg ctttatcact ccttcagtct taagtccatc caccagagtc tagaaggcct 180
 agactggggc ccgccatctc gtgcatgaga catgttgact gtgcccgtgt ggagatggcc 240
 acgctgtgtg tgccaggtat atggccctgg agtctgcatt ggcacctgct atagaggcat 300
 ttggacggaa tccctcacac catcttctgg tgcctcacgt ttttcccat tactaacaaa 360
 atgcatataa cgctgtgaca ttacttaact ctagagttgc cttgcgcagt cgctgtacat 420
 tctagagcta ttccaggtag gttgtcaca ttatgtccag agtgaagcat aggtcatata 480
 agcctaaggt tccatcctgg gggattccag ctagggcgct ctgaggagaa ttgcgagatc 540
 acacatcaca ctctgtggga tctcagggat agcgatgtcc cgttcccat gccccagct 600
 aggtctcaca ggaaccacag ttgcgcagtg cctgcaagct ttaagtgaca gtcggtgtcc 660
 tggaaagccc cagcaagttg cccaggtac ctgggaagac cacgggatct cttttactac 720
 ccacgatgac tccggggttt ctgggcaagg ggccaggagg cacatggatc cctctgcagc 780
 acatccgcc gttcaagttc gtccaacaat gcaggccttt ttgtaaacac aaatgggccc 840
 ggcacgccgg aa 852

<210> 101
 <211> 254
 <212> DNA
 <213> Homo sapien

<400> 101
 gatgaataaa ctacattggc aatggcctct atcatctcga cggcgccagt tgatggattt 60
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt ttttgggggg ggggacagg gagcaggggg ggcgcgcggg 180
 gggagaatgt gttctcccc cccaccccc ccaaaaaaaaa aaaaaaaga attcgataaa 240
 taaaaaaaaa aagt 254

<210> 102
 <211> 447
 <212> DNA
 <213> Homo sapien

<400> 102
 tcgcggccga ggtgggaggt ctaggctgca gtgagccggg acgatgccac tgcactccag 60
 cctgggcaac agagtgagac cctgtcccag cactctggga ggcagaggag ccagttgga 120
 gatcagcctg ggtaatatag tgaaacttga tctctacaaa aaaaagaaga aaaaaaaaaag 180
 ccgcgtgtgg tggtgcgcac ctgtagtccc agctactggg aagctgaggt gggaggatca 240
 cttaagccca ggaggcagag gtcacaatga gccgaaattg tgccaactgg actccagcct 300
 ggggcaacag aggaaggaac tcttcaccag gaaaaaaaa aaaacaaaaa aaaaaaaaaa 360
 aggcgggggg ggaacacag gggcccaaac gcgggggaccc ggggggggaa atgggggaac 420

ccgggaccac aaattcccaa aacaaag

447

<210> 103
 <211> 697
 <212> DNA
 <213> Homo sapien

<400> 103
 gcgtggtcgc ggccgaggtc tccctttttt tttttttttt tttttttttt tcatttttta 60
 aaaaaagtaa cttggtttta taattatggg aaggtggggc cggattaagg gggtttagtt 120
 gttgcctcag ggaattgggt gtggacgtgt gaaaattaat taaaaaaaag gctgtgaaag 180
 aaaaggggtg tggttttgaa ggccaggcca aagggtcttc ttctaggctc cgtttcgtgg 240
 aaaggaacag cctattttaga aaggattatt ggacaacgcc acattactat agggccccac 300
 aatctcacat atttaaaaaa ttcccgtaga aacaacttat agctctgaat ctactcaccg 360
 tgggtgggtg tctccacgtt tctcttctaa atacagtgcc ggactcagag gaaccccccg 420
 aggggtctcc tttgcgtggt tcttttggtg taaaaggaca ggctatagtc ttcgtgtata 480
 ttctcacata aagcctgtgg gggatacatc cagaggggtca caaataaggt ggtatacacg 540
 ccgggtggct aaacaagtgg gctcactcgc gccctcaca atattcacca ccacaacaat 600
 accccacgca cacaacaccc atcaaaaacc acagggggggc aggaaaagac gcccaaccaca 660
 gacgaaaaca aaaagagcag ggaaaaaaaa caaaact 697

<210> 104
 <211> 807
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (380)..(380)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (404)..(404)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (618)..(618)
 <223> a, c, g or t

<400> 104
 gcggccgccc gggcaggtac cacactaagt ctctgggccc ttgtgacttc ctgtgaggat 60
 gtgtgggtgag ggccaaagtg ctatggtttc ctgcctccag tgatagatgg agataaagtg 120

cttctcatgg ccccgccaa tgctgggtg aaggactgtg gcactccaaa gcgtgagcca 180
 gaggggtaat ctgcctgatg tctcgccca ttcaatctcc tgctggaccg ttgggaggca 240
 ttctagagct ctatgctgtg gcacgtggac atccctcatg agcaagactc ctcgtagacc 300
 ataagtgacg attgtagcat tccttgataa gcgcgtctat gcattgactc caattctatc 360
 tccatttcta gagttgcgtg tgtgtggcac accatttctg tcncatttc agctgttcag 420
 ctacatctta gctcgagttc tatctaaacg ctgcgttttg cctttgggtg gactcgatat 480
 agtttgggtt tattgggcgt tgtgcaaact cactatgctg cagcttgata tctttaccag 540
 ttggcgcaag aaacgaacac cttggcagga ctttcttttt cccatttcat tcatgacttg 600
 tggccaattg tggcccanca agggctctat gcattctaaa ccattccttg aaggcctttc 660
 cttccaagtg gagcttcccg ttgtggaagg ccacattgtc gtggggggcac ccttgggttg 720
 cctgtgtggg cccacggtg gcttctttgt tgcttgaaac cgtgtgcctt cccggtcctt 780
 cggggaggaa tttctttggt cccttgg 807

<210> 105
 <211> 975
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (548)..(548)
 <223> a, c, g or t

 <220>
 <221> misc_feature
 <222> (572)..(572)
 <223> a, c, g or t

 <220>
 <221> misc_feature
 <222> (786)..(786)
 <223> a, c, g or t

<400> 105
 caggagatg tccctggggc agacactaag gcaggtgttg aagacaagct gcttgtcaag 60
 aagcatttcc cggcaagaga ggggcaagtc tggggctcca actgggtaca gcctgggtgc 120
 agttataagc ccctttggct tacttggttag aagatggcta cttggatgta cctcacttaa 180
 agatgttttg taccacacta ggtctctggg ccctgtgtgt tcctgtgggt ggggtgaggg 240
 ccaaagtgt atggtttcct gcctccagtg atagatggag ataaagtgt tctcatggcc 300
 ccgtccaatg cctgggtgaa ggactgtggc actccaaagc gtgagccaga ggggtaatct 360
 gcctgatgtc tcgtcccatt caatctcctg ctggaccgtt gggaggcatt ctagagctct 420

atgctgtggc acgtggacat ccctcatgag caagactcct cgtagaccat aagtgacgat 480
 tgtagcattc cttgataagc gcgtctatgc attgactcca attctatctc catttctaga 540
 gttgcgnttg tgtggcacac catttctgtc cncatttcag ctgttcagct acatcttagc 600
 tcgagttcta tctaaacgct cgcttttgcc tttgggtgga ctcgatatag tttgggttta 660
 ttgggcgttg tgcaaactca ctatgctgca gcttgatata tttaccagtt ggcgcaagaa 720
 acgaacacct tggcaggact ttctttttcc catttcattc atgacttgtg gccaatgtg 780
 gccancaaag ggctctatgc attctaaacc attccttgaa ggcttttcct tccaagtgga 840
 gcttcccgtt gtggaaggcc acattgtcgt gggggcaccc ttgggttgcc tgtgtgggcc 900
 ccacgttggc ttctttgttg ccttgaaccg tgtgccttcc cggtccttcg gggaggaatt 960
 tctttggtcc cttgg 975

<210> 106
 <211> 735
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (627)..(627)
 <223> a, c, g or t

<400> 106
 gcggcgcgcc gggcagggtgc tttttttttt tttttttttt ttttttgggg gggttaacttt 60
 tttataaccc ccccgacatc cttacacaaa aacctaccaa tgtgggaacc ctttcaccaa 120
 atctccgtga ggaatgtgtg ctcatatata taaaaatgtg tttaaaaggg attgtgtaac 180
 catttattct tctccatata tgtgtatgtg cgcaacaatg tgcacaaaac gccatagtgt 240
 gtgctccact cgtgttataa gttctaacag cagccacct ataagacagg gagaaatact 300
 tctctctcca caaagggttt cacattttca caaaatataa ggtgtgacag ggcgcgccac 360
 agtgtgtgtg tgcggtgctc tttgtgagag aggtcgtgcg caccagtgtg tgtggagaaa 420
 gagactctcc acagactata aaacatgtag acaccactct ctgtgtgtac cccacactc 480
 tctctctcag agagaacctt ctctttctca caaagcgtct gtgagcggcg cgccccaca 540
 cacaaagaga gagagagcag agaagacgct ctatttattt ctctgagcca acacacggcg 600
 tgcggagatt tgtgcgtctc ctctgngct ctctcgaggg ggctcctctg tgtggactct 660
 ctgagcttat aaaatgttgt gcgtcccacc atctcggttt tcttctctca tttgaggaaa 720
 gagcttgggg gggaa 735

<210> 107
 <211> 751
 <212> DNA

<213> Homo sapien

<400> 107

```

gcgtaggtcgc ggccgaggat acccgtgccc agtgaggacg ccgagctcca gccccgagcc      60
ctggacatct actcgtgccg gtggatgatg ccttccacag agcaaggagc tgatcgaagg      120
tcgctgtaaa ggaatgtctt gaagaaaggg tcaagagtaa acgtgattcc tccattctat      180
gaggaatgaa gtatgggtcca agatccccat ggtgatgact gccgtgttgc agcagttgtg      240
tccgatgctg tagtgaaaag gggtcggagg atcgggtaag gctgtgtgac tgtctcctcg      300
agtgagcctc catgctaatt cccttccttc gcttgaaata gtgcttgta gtggaagggtg      360
gtgctgggtc gaatatctcg ctacataact gtcgcaccac catcctcgtc ttacggttgc      420
ccacaatgaa ggtaccaaca atcttttcac ttcacacatg agaagttatg gcattaagca      480
aacaagatca aagtgtttgt attttccgtc tgaacgggga gaacggggcg tccgttttgt      540
cccttgggcg tggtttcccc agaacacata aacacagaaa accaacaatt taggaattgg      600
tcccaaaaca acaacaaga gcaaacagag aagagaaaac aaaagaggcg cgggcgggta      660
acaccccggtg ggccaacga ggggtgtccc gcgggggtgg aacaggtggc tcccgcgcc      720
acaattcccc accaacacgg gccacaacg g                                751

```

<210> 108

<211> 640

<212> DNA

<213> Homo sapien

<400> 108

```

cgccagttat gatggcgcgc cgggcagggtc gggcaggtaa aaaaaaaaaa aaaaaaaaaa      60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      120
aaaaaaaaaa aaaaaaaaaa gggggggggg gttttttttt ctcccccgcg tgagtggcgc      180
ccccctctt cttttttctt cttctggttg ttttgttctc ttttatttat tatgataata      240
ttatgtctta ttaatcataa tattatgtgt tgggtgggtg cttcttcgtc tgattatcta      300
tcaatatctg tttgtgtggt acagatttct agccgcggtg tgtctccctg cgcgcgtgat      360
aaaacaacag cctctctctc cctctccgt tcttctctt cttatttgtg ctaatccagc      420
aaacgaagag aaagatgcaa cacactttgt tggctcagtc tctgactcg aaccatcgca      480
cccagcgaag caaaaacaga agaacagaga cggtcgggag gggacagtaa tgctagtggg      540
caacaatgta ccccccgcc ggtgagacaa gaaactatcg ttttctacgg ccgcatgaac      600
ttctaccaca actaaacaaa tgacgcaaca aaaaaagggc                                640

```

<210> 109

<211> 533

<212> DNA

<213> Homo sapien

<400> 109
gagcggcgcc gtgtgatgga tggtagacagaa ggaaaacaac tttttatgta tactttctaaa 60
aggggaaaaaa aaaaaaaaaa gagaaaccct ttgattttcca cgttgcccat tcgtcaagac 120
atttcactt cacagatttt gaggtttctg atttccaggt tctgagtttt cccaattgtt 180
taattgttaa ccagaacttg gcacacacac atttaagaat gaattgttaa tttattttatt 240
tcctctttgc tggtcattac cgtcgctttc tattttcttc ttttcttttg tgttgaattt 300
tattttataa gaacaaaaaa cttttttgct aacgacttat tttgcagttt taaaaattca 360
attaaccccc gtttttttca ggaaacaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaccctgtgg tatatatctg tggccaaata gccttttctc cgtgggtgtg ttaaattgtt 480
taactcgcga catcaaaatt cccacaaaac tatatgtgac acacaaaggg agt 533

<210> 110
<211> 262
<212> DNA
<213> Homo sapien

<400> 110
tgtaacaat aaggcacgcg ttttgctttg gtcgcttatt atcccactac gagactacta 60
cagagccaag tacctgagcc actgcgcgca ggggactcgg gaatgtctcc atgggtcaac 120
gaacgcagta ttgccaaata tctcatggac aaagtgacaa cagcactaca agcaaacaat 180
cacataagcc catacatcga tcaacaaaga tactacaact acgccagcgt agggatacaa 240
cccagactga ctacatcac aa 262

<210> 111
<211> 1494
<212> DNA
<213> Homo sapien

<400> 111
tgcagagtac aggatatagc ctggcacttt cctgtagtct acacacaatg cccaactgcc 60
tgaccttagt ggtagtgctc agagtgatct cctgtccatc agcacaggac agtcagaatc 120
tcatectttc atgcggccaa catccccaga ccctttatgt tgacgccagg acctcatctc 180
acctctccat cctcacctta caccgcccct gcctgaccag acaaccaccg gagcaccagt 240
ttggattcta ccgaaaccac ctactcgtea cttctgttac ccaccactat cttgactgac 300
tgcacacacc cggcattcac ctacttatac ttatactatt atgactatga atactcgttc 360
ttaccttacc acctttggat cactacactc ttactcctcc ccacaactgt ggtgtgacac 420
actgacactg gtacgccacg gttcgtccct cggtcacaac acacgcaccg acctaccgc 480
ttatecttca cctactgcc cttacctcgc cgaacacttc acacttctgc aaaaactatc 540
ctcgatgacc cctggacgcc tggacatggc gatgccctac gttctcgcac cacaccttgc 600

aacaccgact cccccctcac tcacaccact acgaaacaac accacccctt cgcaccacca 660
 caccataact taccttaca cgcgcccta ccacagaacc ctactaactt cccaacaca 720
 cccctacggc gatgaccacc tttaacctata cctaacctta acaacccctt tcgaacctcg 780
 acccacacac cgttaccat taccaccatt aaaccactc cggattacaa cccaacacac 840
 atccgacggc actacgccct tcaggaacac ccaccctaaa ctacaccac tctattatac 900
 aaccaacac cactactact atgcacacca caaccaaccc caaacatcca ctaccaccat 960
 aaaacactca gcaggacaac actctgagca acaacagtga ctggacacga cccgcagAAC 1020
 acacacacac ccacacgcgt aggagagaaa caacaaaaca cgccaccccc ctgtcaagcc 1080
 accacgaaac caccggaacg atggccgcac accaacaccc gacagaagcg agtcataaac 1140
 ccctaattcc gtcaccaaca cccaccgaa ctaccaaccg acctgcgcag aacgctcaac 1200
 ggcaagtaac atcacagagc tgactgctcg ttccctccctg atgcggtgac gatcgagccg 1260
 tagcctacgc gtcctccagt cgcgcacgag gggcgcaggg ctcggtctgag gcagtcgtgg 1320
 caatgaatcg gccagacgag ctccgagccg cgcgacggac cagggacggg gtgagcgtgt 1380
 cggcacgcag ctgtcgacat catcatacac tcctcttctt ccgcgttccg tggcggcggc 1440
 gaggaccgcg ctgcagactg gtactctgag ccaggctagc cgacctcacc ccgg 1494

<210> 112
 <211> 811
 <212> DNA
 <213> Homo sapien

<400> 112
 aggagtggaa tcatattggg cgacctgggc ttatagatgc atgctcgagc ggcgcagtgt 60
 gatggatcgg ccgcgggca ggtccctccc tttttttttt tttttttttt tttttttttt 120
 ttaagaggggt caaatttggg tccctttttt gtaaaaaaaaa tttttttttt tttttttttt 180
 ttttttttgt ggaaaccccc tttagaaacc agtgctgcgg ccctcccagt cacgacatgt 240
 ctgttgctgc gccactcttg tgtatacaa agggatggtg cccagcagg gtggaagagg 300
 gagtggccac cacgtgccg acgaggggtga caccacgcg gcgttacaca ttctttggaa 360
 acaccacgc gtgggtctcc cgggctatat aaaactcctc ccccccccta tagagtgtgg 420
 cgacatctgc gatatctccc cgcgcggggg cgggtgtcgt cccaccagtg tgggtgtcct 480
 cgaggggccc cacaggacct cctcaggtgt gcgtcctccc ctttattaga ggggtggggca 540
 caacacccac cccccctcg agtcgtgcgc ggggacaacc ctctgtagcg gaccacgaa 600
 ccaccagaaa agtcctatct ctacgcgcg cgcgaggaa cctccgcgag ggccgcggac 660
 aactgcaagg gatatttccg cgcgccaca caccgtgggg gggcaccaac cgcggggccc 720
 aaacagcgat gttaccgcgg ggtggcgaat attgtgtttt cccgccttc aaaatctccc 780

ccaccacaaa ctaccacacca cccaccacg g 811

<210> 113
 <211> 1506
 <212> DNA
 <213> Homo sapien

<400> 113
 tgggtctgctg gcoctgaggtc ccccccccttt ttttttttttt ttttttttttt ttttttttttt 60
 ttttttttttt gaggggtgggc cgggggggggc aagagagagt gtgtgtgcct atatactagg 120
 tgtgggtggga gagagtgttg gagagtgggg gtgtataaaa atgtgtttat tttgtggtgt 180
 gtgtgtgtgc tcaactaatag agagggtggag gtggtgtgag aatataaacc aactggaaag 240
 tgtgtgaatg aatataaaca gcctatatat tctcgccgcg aacagcgcggt tgtgtgtata 300
 tatgagagaa gtgggtgttag agagagtggg gtgtggcggg tgtgggtgca cactgctgcg 360
 ctgcggcggt ggtgttctct ctctctcacg agctgtgtga tgatgaacac acaaagagta 420
 ggtattatat attctctcct aacgcgcctt ctcctctcgc gcgcgcgcgt aaaaacagag 480
 gtgggacaat agagagtgtg tgctatagcg cgcgtgcaaa cacacaaaat atatacagag 540
 agatgtgtgt acaaccatat gacacaaaca cacagatgaa caacaaacat atttttgcaa 600
 aaaaaaaca gctgtgtaat ataagagtgt gtgtgtgtgt gttcccctgc gagagtattt 660
 acatatatat ctctcccacg cgcgagggac aacacacatc ttttaccata gagagatgag 720
 tgcccccca gggttataca acacacacaa acgcgtgctc tccgcggagg gagacaaaac 780
 aacatatcta ctgtgtggag agaaaaaaat ataacttctc tacacctttt tgagcagaaa 840
 cacctgtgtg cgggctatac acatcacgac gggggggcgac aaaaaaaatg gtgtacaccc 900
 ccttgggggtg tgcgaaaaaa acatgctgtg ctcacacacc gccgcggtct ccaaaaaaat 960
 tctcccaca acaccaacac cttccagatc aaagaccacc acacaacaat gagtcgcata 1020
 ctcacagcac ttcacgtaca tctcagctg acgccattca tccaccaaat caatactgcc 1080
 tcgaacttat actcctacat tctccttagc acctcactgc cacgaacacc actctccctg 1140
 aacacagaca ttcagtcac ccttatcaca aaccaaata catcccaccc gctcaccatc 1200
 tccactactc tacataaaca caaacctcac tccccaaaca ccaccacaca cacctactac 1260
 atccaaccac acaaacctcc cacgcacctc aacttcacca ctctctcact acaaaccttc 1320
 tcacacatca cgccacacat ataccacccc tctcactcaa ccaaccacaa aaacaaacaa 1380
 actacaccac actccacat cccaaccaa actcccacaa ccaacaaaaa tcacaacaca 1440
 cccccactc acaccaacac acacaccacc acaccccccc ctttacccaa tacactctaa 1500
 aaacac 1506

<210> 114
 <211> 779
 <212> DNA
 <213> Homo sapien

<400> 114
 aaaaaa caaa aaaaaa caaa aagaaagagg aatgaataat cactataggg gcctcgggtgt 60
 atctagatgc atgctcgagc ggcgcattgt gatggatcgt ggtcgcggcg aggtgcttat 120
 tttttttttt ttttttttgg tccatgttta aaaaaagtgg aactatggtc ttaattatca 180
 atggggccagg gggggcctga ataagggggt tagtcgtgct caaggggatg ggtgtgggcg 240
 ctggtggaag atagatcgac aaaaatgtgc ttgaaatgag aaatgggtgt gttggtgtta 300
 agaaggtgcc atgtgccc aa tgggtgctcc tcatgtgtcc tgcattctctg ggagaatgag 360
 cgacacgcct ttgagagaaa gagatgtcat tggcaacgcc atggtatcag gcgcccacca 420
 aatcaatata ttacaacaaa tatctctgga aaacatctca cgtctggacc atccactggt 480
 cgggtgtgtc catgttctc ccatcaatgc gcggtcagtg gaccaccaag gagtccttct 540
 gggtcctttg gtaagaagcg cagctaagtc ctgtgttatc ccatagaatg tctgggctgt 600
 aaatctatgg gcacattaac gctggtatcc ctggtgtgga gacaattggt cacatcgcg 660
 tcccaacata tccccaaac aaaactatac agagaaccaa gagacaaaaa taattggaaa 720
 gggcacacaa gacaacaacg gaacccaaaa aaaagcaaga aaaaacaaca gggacaaca 779

<210> 115
 <211> 195
 <212> DNA
 <213> Homo sapien

<400> 115
 tgctctgtgt ctgttctgtg ctgctgtgct gatgctgtgt atcatgctcc actcaaagt 60
 gctgtgtcaa tactgtgtct atccacatga catcatgggt gattaactgc atgtgaaatg 120
 aacattgttg agcaaaatgt gccatgcaaa atgtgccagt gaacctgtaa aaatgtgcct 180
 gctgtttgct tggct 195

<210> 116
 <211> 62
 <212> PRT
 <213> Homo sapien

<400> 116

Met Pro Ser Gln Asn Ala Val Phe Ser Gln Glu Gly Asn Met Glu Glu
 1 5 10 15

Glu Glu Met Asn Asp Gly Ser Gln Met Val Arg Ser Gln Glu Ser Leu
 20 25 30

Thr Phe Gln Asp Arg Gly Arg Gly Leu His Gln Arg Gly Val Gly Pro
 35 40 45

Ala Val Pro Ala Arg Ala Ala Asp Pro Ser Tyr Cys Arg Pro
 50 55 60

<210> 117

<211> 414

<212> PRT

<213> Homo sapien

<400> 117

Gln Glu Ser Leu Thr Phe Gln Asp Val Ala Val Asp Phe Thr Arg Glu
 1 5 10 15

Glu Trp Asp Gln Leu Tyr Pro Ala Gln Lys Asn Leu Tyr Arg Asp Val
 20 25 30

Met Leu Glu Asn Tyr Arg Asn Leu Val Ala Leu Gly Tyr Gln Leu Cys
 35 40 45

Lys Pro Glu Val Ile Ala Gln Leu Glu Leu Glu Glu Glu Trp Val Ile
 50 55 60

Glu Arg Asp Ser Leu Leu Asp Thr His Pro Asp Gly Glu Asn Arg Pro
 65 70 75 80

Glu Ile Lys Lys Ser Thr Thr Ser Gln Asn Ile Ser Asp Glu Asn Gln
 85 90 95

Thr His Glu Met Ile Met Glu Arg Leu Ala Gly Asp Ser Phe Trp Tyr
 100 105 110

Ser Ile Leu Gly Gly Leu Trp Asp Phe Asp Tyr His Pro Glu Phe Asn
 115 120 125

Gln Glu Asn His Lys Arg Tyr Leu Gly Gln Val Thr Leu Thr His Lys
 130 135 140

Lys Ile Thr Gln Glu Arg Ser Leu Glu Cys Asn Lys Phe Ala Glu Asn
 145 150 155 160

Cys Asn Leu Asn Ser Asn Leu Met Gln Gln Arg Ile Pro Ser Ile Lys
 165 170 175

Ile Pro Leu Asn Ser Asp Thr Gln Gly Asn Ser Ile Lys His Asn Ser
 180 185 190

204720.0502001

Asp Leu Ile Tyr Tyr Gln Gly Asn Tyr Val Arg Glu Thr Pro Tyr Glu
195 200 205

Tyr Ser Glu Cys Gly Lys Ile Phe Asn Gln His Ile Leu Leu Thr Asp
210 215 220

His Ile His Thr Ala Glu Lys Pro Ser Glu Cys Gly Lys Ala Phe Ser
225 230 235 240

His Thr Ser Ser Leu Ser Gln Pro Gln Met Leu Leu Thr Gly Glu Lys
245 250 255

Pro Tyr Lys Cys Asp Glu Cys Gly Lys Arg Phe Ser Gln Arg Ile His
260 265 270

Leu Ile Gln His Gln Arg Ile His Thr Gly Glu Lys Pro Phe Ile Cys
275 280 285

Asn Gly Cys Gly Lys Ala Phe Arg Gln His Ser Ser Phe Thr Gln His
290 295 300

Leu Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Asn Gln Cys Gly
305 310 315 320

Lys Ala Phe Ser Arg Ile Thr Ser Leu Thr Glu His His Arg Leu His
325 330 335

Thr Gly Glu Lys Pro Tyr Glu Cys Gly Phe Cys Gly Lys Ala Phe Ser
340 345 350

Gln Arg Thr His Leu Asn Gln His Glu Arg Thr His Thr Gly Glu Lys
355 360 365

Pro Tyr Lys Cys Asn Glu Cys Gly Lys Ala Phe Ser Gln Ser Ala His
370 375 380

Leu Asn Gln His Arg Lys Ile His Thr Arg Glu Lys Leu Cys Glu Tyr
385 390 395 400

Lys Cys Glu Gln Thr Val Arg His Ser Pro Ser Phe Ser Ser
405 410

<210> 118
<211> 160
<212> PRT
<213> Homo sapien

<400> 118

10073090.02402

66

Met Gln Leu Val Leu Leu Val Pro Val Cys Pro Thr Ile Gly Val Phe
1 5 10 15

Phe Arg Arg Leu Gly Pro His Phe Asp Val Gly Arg Phe Leu Cys Leu
20 25 30

Trp Gln Phe Val Val Pro Gln Ser Leu Pro Cys Arg Trp Arg Gly Ala
35 40 45

Arg Gly Phe Arg Thr Leu Gly Val Leu Phe Leu Val Val Pro His His
50 55 60

Gly Ala Ser Ser Gly Cys Arg Leu Arg Arg Cys Arg Phe Phe Cys Ser
65 70 75 80

Cys Gly Ser Ala Ser Val Asp Leu Phe Ala Leu Gly Trp Ile Cys Leu
85 90 95

Ser Leu Arg Arg Pro Ser Val Arg Cys Arg Trp Ile Pro Leu Val Thr
100 105 110

Ala Arg Val Ala Cys Ala Ala Cys His Ala Gly Thr Pro Pro Leu Cys
115 120 125

Ala Phe Leu Gly Arg Cys Ser Ile Thr Ala Cys Cys Thr Ser Phe Cys
130 135 140

Phe Ser Leu Phe Thr Ala Phe Val Cys Pro Val Ala Cys Met His Arg
145 150 155 160

<210> 119

<211> 121

<212> PRT

<213> Homo sapien

<400> 119

Met Arg Glu Lys His Asn Arg Arg Arg Gln Gln Pro Asp Glu Asp Thr
1 5 10 15

Gln Arg Glu Ser Lys Lys Pro Gln Gln Ser Ser Thr Lys Thr Thr Gln
20 25 30

Thr His Lys Val Ile Pro Tyr His His Asp His Ser Pro Thr Thr Gln
35 40 45

His Arg Lys Asp Lys Asn Val Lys Ala Arg Asp Gln Pro His Pro Asn
50 55 60

204729.05032001

67

Ile Ala Glu Asn Asp Glu Thr Pro Gln Lys Val Asn Asn Met Met Lys
65 70 75 80

Asp Lys His Asn Lys Ala Lys Pro Asn Thr Lys Gln Ala Lys Lys Gly
85 90 95

Lys Lys Asn Arg His Asp Ser Asp Ser Arg Ser Thr Lys Arg Ile Arg
100 105 110

Arg Lys Gln Ile Lys Thr Thr Asp Arg
115 120

<210> 120
<211> 15
<212> PRT
<213> Homo sapien

<400> 120

Met Trp Ala Thr Val Val Leu Leu Arg Gln Lys Lys Lys Arg Thr
1 5 10 15

<210> 121
<211> 97
<212> PRT
<213> Homo sapien

<400> 121

Met Lys Lys Glu Ile Phe Pro Leu Phe Ser Asn Arg Pro Ser Ser Pro
1 5 10 15

Thr His Glu Ser Tyr Pro His Leu Leu Leu Leu Pro Val Arg Lys Tyr
20 25 30

Gly Ser Cys His Thr His Pro Asp Ala Ser Val Leu Pro Pro His Cys
35 40 45

Leu Ser Asn Val Ser Leu Ser Leu Gln Cys Phe Asp Arg Lys Gly Gln
50 55 60

Arg Thr Leu Gly Ser Gly Thr Arg Val Phe Thr Leu Gln Ala Leu Met
65 70 75 80

Glu Phe Glu Gln Asn Pro Ala Ser Phe Ile Thr Val Arg Ser Gly Trp
85 90 95

His

<210> 122

10073090-021402

<211> 19
 <212> PRT
 <213> Homo sapien

<400> 122

Met Glu Thr His Leu Glu Ala Phe Pro Trp Gln Ser Val Thr Arg Ile
 1 5 10 15

Pro Asn Leu

<210> 123
 <211> 59
 <212> PRT
 <213> Homo sapien

<400> 123

Met Ser Val Thr Phe Thr Cys Gly His Leu Tyr Lys Gln Cys Ser Phe
 1 5 10 15

Asn Ser Asn Gly Ala Leu Thr Tyr Gly Gly Gly Lys Lys Thr Thr Arg
 20 25 30

Ser Asn Trp Ser Cys Gly Asn Asn Asn Ser Pro Leu Leu Leu Asn His
 35 40 45

Pro Tyr Ala Ala Gly His Val Leu Arg Ala Pro
 50 55

<210> 124
 <211> 41
 <212> PRT
 <213> Homo sapien

<400> 124

Met Ala Ala Ala Met Ser Pro Ile Pro Leu Ala Phe Ser Asp Leu Ala
 1 5 10 15

Thr Ser Ser Ser Arg Gly Arg Val Ser Tyr His Pro Ala Leu His Leu
 20 25 30

Gly Ser Pro Cys Asp Tyr Phe Asp Gln
 35 40

<210> 125
 <211> 84
 <212> PRT
 <213> Homo sapien

<400> 125

20170920-094402

69

Met Gly Gln Arg Leu Leu Val Leu Phe Arg Cys Pro Gly Ala Arg Thr
1 5 10 15

Val Cys Thr Ser Ser Thr Glu Ser Gln Phe Gln Pro Asp Leu Leu Lys
20 25 30

Cys Val Thr Lys Gly Val Ala Glu Phe Glu His Ile Ala Tyr Leu Lys
35 40 45

Leu Gln Ile Ala Thr Met Trp Val Ser Lys Leu Asp Tyr Phe Cys Leu
50 55 60

Tyr Gly Thr Ala Leu Thr His Ser Pro Ser Trp Ser Ser Gln Leu Gly
65 70 75 80

His Ser Cys Leu

<210> 126
<211> 28
<212> PRT
<213> Homo sapien

<400> 126

Met Leu Phe Phe Lys Lys Leu Thr Leu Phe Asn Asn Tyr Asn Asp Thr
1 5 10 15

Glu Arg Cys Pro Ser His Thr Glu Ser Ser Arg Phe
20 25

<210> 127
<211> 23
<212> PRT
<213> Homo sapien

<400> 127

Met Trp Gly Tyr Leu Pro Ala Leu His Gln Phe Ser His His Asn Leu
1 5 10 15

Ser Pro Gly Asn Lys Gln Arg
20

<210> 128
<211> 38
<212> PRT
<213> Homo sapien

<400> 128

Met Gln Ile Met Ile Leu Val Thr Ile Leu Leu Thr Leu Lys Thr Glu
1 5 10 15

20078090.021400

Leu Ser Asp Thr Pro Phe Arg His Gln Thr Gly Tyr Glu Val Ala His
 20 25 30

Thr Trp Asn Arg Pro Lys
 35

<210> 129
 <211> 55
 <212> PRT
 <213> Homo sapien

<400> 129

Met Ser Gln Gly Gly Tyr Cys Pro Ser Cys Phe Gln Ser Leu Ser Lys
 1 5 10 15

Arg Leu Gly Ala Arg Lys Arg Val Phe Val Leu Leu Asn Val Ser Asn
 20 25 30

Glu Cys Thr Val Glu Ala His Gly Glu Ser Leu Arg Trp Arg Glu Lys
 35 40 45

Ser Gln Lys Gly Arg Leu Leu
 50 55

<210> 130
 <211> 171
 <212> PRT
 <213> Homo sapien

<400> 130

Met Ala Lys Phe Val Ile Arg Pro Ala Thr Ala Ala Asp Cys Ser Asp
 1 5 10 15

Ile Leu Arg Leu Ile Lys Glu Leu Ala Lys Tyr Glu Tyr Met Glu Glu
 20 25 30

Gln Val Ile Leu Thr Glu Lys Asp Leu Leu Glu Asp Gly Phe Gly Glu
 35 40 45

His Pro Phe Tyr His Cys Leu Val Ala Glu Val Pro Lys Glu His Trp
 50 55 60

Thr Pro Glu Gly His Ser Ile Val Gly Phe Ala Met Tyr Tyr Phe Thr
 65 70 75 80

Tyr Asp Pro Trp Ile Gly Lys Leu Leu Tyr Leu Glu Asp Phe Phe Val
 85 90 95

204T20-0508200F

Met Ser Asp Tyr Arg Gly Phe Gly Ile Gly Ser Glu Ile Leu Lys Asn
 100 105 110

Leu Ser Gln Val Ala Met Arg Cys Arg Cys Ser Ser Met His Phe Leu
 115 120 125

Val Ala Glu Trp Asn Glu Pro Ser Ile Asn Phe Tyr Lys Arg Arg Gly
 130 135 140

Ala Ser Asp Leu Ser Ser Glu Glu Gly Trp Arg Leu Phe Lys Ile Asp
 145 150 155 160

Lys Glu Tyr Leu Leu Lys Met Ala Thr Glu Glu
 165 170

<210> 131
 <211> 15
 <212> PRT
 <213> Homo sapien

<400> 131

Met Leu Ser Arg Ser Val Ala Arg Leu Glu Cys Ser Gly Thr Ile
 1 5 10 15

<210> 132
 <211> 51
 <212> PRT
 <213> Homo sapien

<400> 132

Met Leu Phe Leu Gln Met Pro Cys Leu Phe Arg Val Cys Ser Gln Met
 1 5 10 15

Leu Pro Glu Gly Glu Thr Phe Phe Leu Cys Gln Ser Arg Phe Leu Gln
 20 25 30

Ser Ser Ile Thr Pro Gln Lys Val Arg Ser Lys Arg Arg Leu Thr Phe
 35 40 45

Ser Asp Lys
 50

<210> 133
 <211> 60
 <212> PRT
 <213> Homo sapien

<400> 133

Met Cys Val Cys Pro Val Pro Val Tyr Gln Leu Thr Asn Trp Glu Thr

10078090.021402

1 5 10 15
 Pro Arg Pro Trp Asp Pro Arg Thr Ser Asn Ser Val Ser Gly Met Phe
 20 25 30
 Leu Arg Trp Ala Arg Gly Ser Pro Arg Val Phe Phe Phe Phe Phe Phe
 35 40 45
 Phe Leu Leu Glu Ala Ile His Lys Lys Leu Phe Ser
 50 55 60

 <210> 134
 <211> 32
 <212> PRT
 <213> Homo sapien

 <400> 134
 Met Phe Pro Gly Asp Phe Ser Ala Phe Lys Leu Leu Glu Thr Ala Glu
 1 5 10 15

 Ile Phe Val Lys Ser Lys Leu Phe Trp Lys Asn Glu Leu Ala Cys Ser
 20 25 30

 <210> 135
 <211> 136
 <212> PRT
 <213> Homo sapien

 <400> 135
 Met Phe Pro Arg Ile Leu Phe Ser Tyr Tyr Pro Ala Leu Tyr Phe Phe
 1 5 10 15

 Val Asn Thr Pro Pro Thr Arg Ile Phe Phe Thr Ser Asp Asn Arg Gly
 20 25 30

 Gly Pro Leu Gln Ile Leu Phe Thr Lys Trp Gly Thr Asn Gly Glu Asn
 35 40 45

 Lys His Arg Trp Val Trp Val Glu Leu Asn Arg Ser Thr Thr Ser Gly
 50 55 60

 Gly Leu Ser Ser Glu Lys Arg His Thr Thr Ser Gly Glu Gly Ala Ser
 65 70 75 80

 Pro Pro His Pro Glu Asn Ser Pro Arg Ala Phe Arg Pro Arg Arg His
 85 90 95

 Leu Val Val Ala Leu Arg Arg Ala Pro Pro Phe Phe Phe Phe Phe
 100 105 110

10078090-024402
 204729-06092007

Phe Phe Phe Phe Val Phe Phe Phe Phe Phe Phe Phe Phe Leu Ile
 115 120 125

Glu Lys Asn Leu Ser Gln Ile Gln
 130 135

<210> 136
 <211> 33
 <212> PRT
 <213> Homo sapien

<400> 136

Met Tyr Trp Thr Thr Lys Leu Ile Ile Ser Ser Lys Lys Ile Gln Lys
 1 5 10 15

Gln Gln Thr Lys Lys Lys Thr Arg Gly Lys Pro Gly Thr Lys Gly Ser
 20 25 30

Arg

<210> 137
 <211> 29
 <212> PRT
 <213> Homo sapien

<400> 137

Met Met Thr Lys Thr Leu Leu Asn Glu Asn Ser Ile Val Cys Glu Thr
 1 5 10 15

Leu Lys Lys Ser Leu Phe Ile Ser Phe Cys Arg Trp Asn
 20 25

<210> 138
 <211> 62
 <212> PRT
 <213> Homo sapien

<400> 138

Met Gly Leu Pro Met Phe Ala Arg Leu Val Phe Glu Leu Leu Gly Ser
 1 5 10 15

Lys Pro Ile Pro Thr His Leu Gly Pro Pro Gln Ser Ala Gly Asn Tyr
 20 25 30

Arg His Glu Pro Leu His Leu Pro Ala Leu Val Thr Leu Asn Glu Leu
 35 40 45

20170608 06:03:00

Leu Asn Leu Cys Ile Ser Ile Ser Leu Leu Ala Lys Trp Arg
 50 55 60

<210> 139
 <211> 84
 <212> PRT
 <213> Homo sapien

<400> 139

Met Ala Val Gly Arg Gly Leu Pro Gly Val Thr Ala Lys Leu Cys Val
 1 5 10 15

His Arg Gln Ala Gly Arg Met Leu Gln Pro Cys Gly Val Gly Thr Val
 20 25 30

Glu Ala Phe Leu Cys Val Ala Glu Asn Val Ser Gln Ile Ser Gly Asn
 35 40 45

Trp Asp Arg Lys Val Pro Arg Gly Ala Cys Met Gly Arg Leu Gln Lys
 50 55 60

Val Ser Pro His Phe Met Phe Val Ile Ala Ala Gln Asp Arg Gln Thr
 65 70 75 80

Pro Arg Gly Trp

<210> 140
 <211> 72
 <212> PRT
 <213> Homo sapien

<400> 140

Met Leu Ile Lys His Phe Thr Phe Ile Ile Lys Tyr Val Ala Met Phe
 1 5 10 15

Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe
 20 25 30

Phe Phe Phe Ser Leu Ser Pro Ser Phe Phe Phe Phe Tyr Ser Pro Ser
 35 40 45

Gly Thr Pro Arg Gly Gly Glu Gly Asp Arg Gly Thr Arg Arg Glu Gly
 50 55 60

Ala Arg Arg Glu Arg Ala Arg Arg
 65 70

<210> 141

204720-068201

<211> 76
 <212> PRT
 <213> Homo sapien

<400> 141

Met Gly Lys Lys Ala Leu Asp Gln Leu Arg Ile Leu Arg Arg Leu Pro
 1 5 10 15

Ser Gln Gly Trp Pro Val Lys Gly Cys Ile Leu His Thr Arg Ile Asp
 20 25 30

Leu Thr Gln Gln Gln Arg Glu Lys Thr Ser Gln Ala Gln Ser Leu Ser
 35 40 45

Pro Cys Gly Ser Ile Phe Thr Ile Ser Val Ser Cys Arg Gln Ser Asn
 50 55 60

Trp Arg Tyr Gln Ala Ile Pro Gln Ile Leu Leu Phe
 65 70 75

<210> 142
 <211> 32
 <212> PRT
 <213> Homo sapien

<400> 142

Met Leu Ile Ser Arg Ile Ser Asn His Leu Leu Lys Phe Tyr Ala Leu
 1 5 10 15

Ile Gly Val Ala Ile Gln Asp Phe Lys Lys Ile Phe Glu Pro Ser Gln
 20 25 30

<210> 143
 <211> 108
 <212> PRT
 <213> Homo sapien

<400> 143

Phe Leu Arg Gln Ser Leu Arg Ser Val Ala Gln Ala Gly Val Gln Ala
 1 5 10 15

Arg His Leu Gly Ser Leu Gln Pro Leu Ser Leu Arg Phe Lys Ala Phe
 20 25 30

Ser Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg His Ala Pro Pro
 35 40 45

His Pro Ala Asn Phe Phe Val Phe Leu Val Glu Met Gly Phe Thr Val
 50 55 60

204720-05082007

Leu Ala Arg Met Val Ser Ile Ser Ala Thr His Asp Pro Pro Ala Leu
65 70 75 80

Ala Cys Gln Ser Ala Gly Ile Thr Gly Ala Arg Arg His Pro Arg Leu
85 90 95

Ile His Ile His Phe Leu Ile Phe Glu Tyr Gln Ser
100 105

<210> 144
<211> 199
<212> PRT
<213> Homo sapien

<400> 144

Met Thr Thr His Glu Pro His Pro Arg His Lys His Ala Thr Thr Pro
1 5 10 15

Ala Arg Thr His Pro Pro Asn His Glu Pro His Thr Pro Pro His Thr
20 25 30

Thr Pro Thr Ser Pro Thr Thr Thr Pro Ala Thr Thr Pro Arg Thr His
35 40 45

Thr Thr Thr Pro Thr Thr Ala Gln Thr Arg Arg Asp Arg Thr Ala Glu
50 55 60

Lys Thr Thr Gln Arg Gly Gly Lys Glu Asp Asn Asp Ala Glu Gly Arg
65 70 75 80

Arg Lys Arg Gly Pro Ile Thr Pro Pro Ala Ser Gly Ala Glu Ser Arg
85 90 95

Gly Gly Leu Ala Arg Arg Ala Arg Trp Pro Pro Ala Asn Thr Thr Arg
100 105 110

His Ala Thr Asn Asp Pro Thr His Gln Arg Thr Ala Gln Gln Gln Arg
115 120 125

Arg Thr Ala Arg Asp Gln Arg Gly Thr Ala Asp Arg His Thr Asp Ala
130 135 140

Arg Gly His Asp Gln Arg Arg Arg Thr Thr Gly Asp Asp Thr Arg Gln
145 150 155 160

Ala Thr Gln Arg Ala Gln Pro Thr Gly Arg Glu Glu Lys Arg Gly Lys
165 170 175

20250303 09:00:00

Lys Asn Ala Lys Ala Arg Pro Ala Ala Asn Arg Gly Ala Asn Gly Pro
 180 185 190

Gln Ala Ala Ala Ala His Glu
 195

<210> 145
 <211> 88
 <212> PRT
 <213> Homo sapien

<400> 145

Met Arg Gly Ile Asn Pro Asp Pro Ser Val Cys Gly Ile Cys Asp Phe
 1 5 10 15

Tyr Ser Ser Lys Val Ser Ile His Val Pro His Ser Glu Leu Ser Gln
 20 25 30

Lys Asn Phe Ile Thr Leu Phe Ile Phe Phe Leu Arg Gly Lys Phe Lys
 35 40 45

Gln Arg Lys Ser Leu Ala Gly Tyr Thr Gln Trp Leu Ile Gly Val Asp
 50 55 60

Leu Arg Gly Gly Asp Asn Cys Val Tyr Ser Arg Ser His Thr Ser Pro
 65 70 75 80

His Asn Tyr Tyr Arg Thr Asn Thr
 85

<210> 146
 <211> 63
 <212> PRT
 <213> Homo sapien

<400> 146

Met Trp Glu Gln Asn Phe Ile Cys Ala Phe Ile Val Glu Gln Glu Ser
 1 5 10 15

His Leu Ala Leu Tyr Pro Ser Ser Leu Leu Tyr Asn Ser His Arg Asn
 20 25 30

Val Ile Lys Leu Ala Ser Asn Trp Thr Arg Arg Lys Arg Trp Glu Thr
 35 40 45

Pro Gly Ser Ile Ser Arg Val Arg Pro Pro Glu Lys Gly Ser Val
 50 55 60

20170909-021402

<210> 147
 <211> 50
 <212> PRT
 <213> Homo sapien

<400> 147

Met Arg Pro Pro Ile Thr Leu Leu Gly Ala Arg Asp Lys Asn Lys Lys
 1 5 10 15

Ser Trp Ala Val Pro Arg Gly Ala Ser Ala Trp Cys Pro Gly Gly Lys
 20 25 30

Met Gly Asn Pro Ala His Asn Pro Pro Thr Thr Ile Pro Ala Gln Arg
 35 40 45

Thr Arg
 50

<210> 148
 <211> 36
 <212> PRT
 <213> Homo sapien

<400> 148

Met Pro Gln Gly Lys Lys Tyr Asn Thr Tyr Ile His Lys Gln Lys Lys
 1 5 10 15

Gln Glu Arg Ile Gln Met Ser Phe Asn Arg Gly Met Leu Thr Leu Met
 20 25 30

Val Ala Tyr Ser
 35

<210> 149
 <211> 98
 <212> PRT
 <213> Homo sapien

<400> 149

Met Ser Ser Ser Ala Pro Thr Pro Trp Gly Ala Lys Gly Gly Glu Leu
 1 5 10 15

Trp Arg Pro Glu Lys Pro Thr Phe Ser Thr His Gly Glu His Arg Tyr
 20 25 30

Glu Pro His Trp Ser Asn Pro Gln Ala Leu Phe Phe Phe Leu Phe Phe
 35 40 45

Phe Phe Phe Phe Phe Arg Lys Arg His Val Ile Tyr Phe Met Asn Ser
 50 55 60

204720-060820T

Ile Ser Arg Leu Ser Gly Asn Met Glu His Trp Gly Thr Asp Pro Ser
65 70 75 80

Thr Glu Gly Phe Ala Ser Leu Leu Trp Phe Ser Cys Gln Leu Met Ile
85 90 95

Arg Pro

<210> 150
<211> 94
<212> PRT
<213> Homo sapien

<400> 150

Met Cys His Leu Leu Ile Phe Ile Arg Asn Leu Ser Leu Val Ala Thr
1 5 10 15

Trp Pro Asn Thr Leu Gln Ser Met Ser Val Cys Leu Ser Val Cys Val
20 25 30

Ser Leu Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val
35 40 45

Cys Val Ser Pro His Ser Phe Ile Leu Ser Leu His Ser Ser Ile Ile
50 55 60

Ile Asn Ile Arg Glu Ile His Arg Lys Tyr Ile Glu Lys Ile Thr Val
65 70 75 80

Phe Ser Ile Lys Lys Lys Gln Leu Pro Ser Leu His Ser Phe
85 90

<210> 151
<211> 260
<212> PRT
<213> Homo sapien

<400> 151

Leu Arg Arg Ala Lys Ala His Glu Gly Leu Gly Phe Ser Ile Arg Gly
1 5 10 15

Gly Ser Glu His Gly Val Gly Ile Tyr Val Ser Leu Val Glu Pro Gly
20 25 30

Ser Leu Ala Glu Lys Glu Gly Leu Arg Val Gly Asp Gln Ile Leu Arg
35 40 45

204720-05082001

Val Asn Asp Lys Ser Leu Ala Arg Val Thr His Ala Glu Ala Val Lys
50 55 60

Ala Leu Lys Gly Ser Lys Lys Leu Val Leu Ser Val Tyr Ser Ala Gly
65 70 75 80

Arg Ile Pro Gly Gly Tyr Val Thr Asn His Ile Tyr Thr Trp Val Asp
85 90 95

Pro Gln Gly Arg Ser Ile Ser Pro Pro Ser Gly Leu Pro Gln Pro His
100 105 110

Gly Gly Ala Leu Arg Gln Gln Glu Gly Asp Arg Arg Ser Thr Leu His
115 120 125

Leu Leu Gln Gly Gly Asp Glu Lys Lys Val Asn Leu Val Leu Gly Asp
130 135 140

Gly Arg Ser Leu Gly Leu Thr Ile Arg Gly Gly Ala Glu Tyr Gly Leu
145 150 155 160

Gly Ile Tyr Ile Thr Gly Val Asp Pro Gly Ser Glu Ala Glu Gly Ser
165 170 175

Gly Leu Lys Val Gly Asp Gln Ile Leu Glu Val Asn Gly Arg Ser Phe
180 185 190

Leu Asn Ile Leu His Asp Glu Ala Val Arg Leu Leu Lys Ser Ser Arg
195 200 205

His Leu Ile Leu Thr Val Lys Asp Val Gly Arg Leu Pro His Ala Arg
210 215 220

Thr Thr Val Asp Glu Thr Lys Trp Ile Ala Ser Ser Arg Ile Arg Glu
225 230 235 240

Thr Met Ala Asn Ser Ala Gly Ser Gly His Ser Ala Arg Ser Asn Leu
245 250 255

Gln Thr Pro Gly
260

<210> 152

<211> 95

<212> PRT

<213> Homo sapien

<400> 152

20240706092001

Met Trp Val Leu Val Leu Gly Ala Leu Leu Ala Gly Ile Ile Pro Leu
1 5 10 15

Cys Tyr Ser Pro Gly Ile Gln Arg Phe Leu Pro Pro Trp Gly Leu Pro
20 25 30

Pro Thr Ala Phe Cys Arg Gln Cys Val Phe Ala Leu Val Ser Cys Gly
35 40 45

Ala Arg Gly Ser Arg Ser Ala Gly Gly Val Ser Gly Gly Ala Pro Arg
50 55 60

Cys Ala Pro Leu Phe Ile Trp Gly Ile Cys Val Cys Gly Gly Ser Pro
65 70 75 80

Pro Trp Phe Ala Val Cys Arg Ala Cys Gly Ser Pro Arg Ser Val
85 90 95

<210> 153

<211> 62

<212> PRT

<213> Homo sapien

<400> 153

Met Phe Ser Val Val Val Trp Cys Leu Leu Val Arg Cys Val Val Val
1 5 10 15

Asn Cys Gly Glu Leu Trp Arg Gly Ile Thr Asn Val His Pro Gly Gly
20 25 30

Pro Ala Tyr Glu Pro Glu Ala Thr Pro Gln Ala Phe Phe Phe Cys Phe
35 40 45

Phe Phe Leu Leu Val Lys Glu Pro Ser Phe Ile Ile Lys Gln
50 55 60

<210> 154

<211> 65

<212> PRT

<213> Homo sapien

<400> 154

Met Arg Leu Ile Gln Lys Arg Arg Ile Tyr Pro Ser Arg Lys Thr Glu
1 5 10 15

Ile Asn Ser Ser Ser Pro Phe Thr Tyr Pro Pro Tyr Thr His Thr Tyr
20 25 30

Asn Thr His Thr His Thr His Thr Glu Arg Glu Arg Asp Leu Pro Gly
 35 40 45

Gly Ile His His Leu Arg Arg Ser Ser Asn Ala Ile Asn Gly Pro Phe
 50 55 60

Ala
 65

<210> 155
 <211> 51
 <212> PRT
 <213> Homo sapien

<400> 155

Met Ile Cys Ile Pro Leu Arg Lys Asn Ser Ser Trp Glu Phe Ile Arg
 1 5 10 15

Leu Phe Phe Ile Pro Ala His Lys Lys Lys Leu Leu Ala Leu Leu Leu
 20 25 30

Leu Lys Thr Glu Glu Pro Gln Glu Lys Ile Ser Phe Ser Tyr Arg Ala
 35 40 45

Lys Ile Lys
 50

<210> 156
 <211> 129
 <212> PRT
 <213> Homo sapien

<400> 156

Met Leu Leu Glu Arg Pro Gln Cys Asp Gly Cys Ala Arg Ala Gly Thr
 1 5 10 15

Ala Phe Phe Phe Phe Phe Phe Leu Gly Asn Gly Ile Leu Leu Cys His
 20 25 30

Pro Gly Trp Ile Lys Val Ala Gln Pro Trp Phe Thr Glu Thr Ser Ala
 35 40 45

Ser Trp Val Val Phe Lys Asn Ile Leu Leu Phe Ser Cys Val Leu Ser
 50 55 60

Ala Ser Pro Lys Leu Ala Val Gly Leu Thr Gly Leu Ala Thr Thr Ala
 65 70 75 80

Thr Gln Leu Asn Phe Val His Val Phe Ser Lys Ala Arg Gly Phe Ser

10078090-03403

83

85

90

95

Leu Asn Leu Phe Gly Pro Gly Val Val Ser Arg Leu Leu Arg Glu Pro
100 105 110

Gln Val Thr Pro Ser Val Pro Ser Arg Leu Leu Lys Met Trp Leu Val
115 120 125

Tyr

<210> 157

<211> 71

<212> PRT

<213> Homo sapien

<400> 157

Met Ile Arg Gln Ala Val Phe Asn Ala Val Tyr Asn Cys Phe Ile Ile
1 5 10 15

Ser Cys Ser Asp Cys Ser Leu Leu Val Cys Arg Asn Thr His Leu Phe
20 25 30

Cys Asp Pro Cys Leu Gln Pro His Ser Leu Ile Ile Phe Ile Leu Ile
35 40 45

Ala Ile Leu Arg Met Cys Ser Ile Tyr Arg Asp Pro Ile Ile Leu Val
50 55 60

Glu Leu Lys Ile Cys Leu Cys
65 70

<210> 158

<211> 69

<212> PRT

<213> Homo sapien

<400> 158

Met Arg Leu Pro Leu His His Val Leu Pro Leu Arg Asp Leu Ser Phe
1 5 10 15

Gln His Tyr Ser Cys Lys Leu Gln Trp His Ser Thr Thr Phe Ile Pro
20 25 30

Ser Ser Cys His Ser Leu Phe Phe His Ser Phe Leu Thr Val Cys Thr
35 40 45

Pro Met Tyr Ala Ala Ile Phe Ile Ile Leu His Phe Leu Tyr Leu Ser
50 55 60

10078090-03402

Ile Pro Asn Ile Leu
65

<210> 159
<211> 57
<212> PRT
<213> Homo sapien

<400> 159

Met Ser His Cys Thr Gln Pro Gly Glu Ser Phe Ile Met Gly Tyr Glu
1 5 10 15

Val Tyr Arg Leu His Ser Asp Ser Thr Lys Leu Asp Phe Met Arg Ile
20 25 30

Gln Leu Gln Leu Thr Phe Thr Ser Gly Leu Thr Leu Lys Arg Lys Ile
35 40 45

Val Ser Gln Lys Asp Leu Trp Tyr Met
50 55

<210> 160
<211> 102
<212> PRT
<213> Homo sapien

<400> 160

Met Tyr His Phe Ser Thr Leu Arg Ala Cys Leu Gly Pro Phe Phe Cys
1 5 10 15

Val Arg Cys Leu Gln Thr Ile Leu Thr Ile Leu Glu Arg Ala Leu Pro
20 25 30

Arg Arg Glu Ser Arg Gly Thr Phe Leu Phe Ser Gln Lys Lys Pro Arg
35 40 45

Val Ile Arg Phe Pro Pro Pro Gly Gly Gly Leu Leu Asn Gln Glu Val
50 55 60

Asp Leu Leu Ala Ser Ile Ser Val Tyr Asn Pro Gln Pro Ser Gly Val
65 70 75 80

Thr Thr Gly Leu Gln Arg Val Cys Asp Asn Val Ser Asn Ala Glu Lys
85 90 95

Lys Thr Pro Ser Pro Val
100

2024.09.06 09:00

<210> 161
 <211> 70
 <212> PRT
 <213> Homo sapien

<400> 161

Met Val Met Cys Gln Pro Glu Gly Asn Val Tyr Ala Val Leu Arg Ser
 1 5 10 15

Pro Leu Phe Leu Glu Asn Gln Gln Asn Arg Ala Asp His Leu Ala Tyr
 20 25 30

His Phe Cys Val Leu Leu Val Pro Gly Ile Gly Leu Trp Phe Asp His
 35 40 45

Cys Cys Asp His Cys Ser Ala Asp Cys Asp Leu Gln Asn Thr Glu Ser
 50 55 60

Lys Leu Gln Ser Pro Trp
 65 70

<210> 162
 <211> 59
 <212> PRT
 <213> Homo sapien

<400> 162

Met Gly Cys His Lys Ser Gly Thr Gly Gly Phe Leu Ser Arg Gly Lys
 1 5 10 15

Arg Thr Glu Pro Ala His His Val Met Pro Cys His Leu Arg Ile Leu
 20 25 30

His Ser Ser His Gln Glu Glu Gly Pro His Gln Met Gln Pro Leu Asn
 35 40 45

Phe Glu Leu Leu Ser Leu Gln Ser Cys Gln Lys
 50 55

<210> 163
 <211> 84
 <212> PRT
 <213> Homo sapien

<400> 163

Met Thr Thr Gln Thr Gly Asn Gln Leu Asp Ala His Gly Gly Ser Ala
 1 5 10 15

Gln Ala Leu Phe Cys Phe Phe Leu Phe Phe Phe Tyr Leu Lys Tyr Leu

100780590-031402

20

25

30

Val Leu Asn Leu Val Gln Leu Asn His Trp Glu Phe Glu Phe Leu Phe
 35 40 45

Lys Ser Cys Leu Trp Ser Ala Ser Tyr Gly Lys Pro Leu His Trp Ile
 50 55 60

Pro Ser Thr Lys Thr Arg Leu Leu Lys Phe Lys Cys Gln Trp Gly Arg
 65 70 75 80

Trp Glu Ala Ala

<210> 164

<211> 41

<212> PRT

<213> Homo sapien

<400> 164

Met Cys His His Gly Asn His Ala Phe Trp Ala Pro Leu Gly Val
 1 5 10 15

Thr Ala Pro Ser Ala Val Leu Phe Cys Phe Val Phe Leu Phe Cys Phe
 20 25 30

Phe Ser Gln Leu Gly Lys Phe Asn Ile
 35 40

<210> 165

<211> 51

<212> PRT

<213> Homo sapien

<400> 165

Met Arg Leu Phe Phe Thr Ser Leu Ser Gln Gly Cys Phe Phe Leu Val
 1 5 10 15

Ile Cys Leu Leu Cys Phe Ile Arg Tyr Phe Ala Gln Ile Lys His Ser
 20 25 30

Pro Gly Ala Gln Lys Lys Lys Lys Lys Lys Lys Lys Arg Pro Arg
 35 40 45

Arg Asp His
 50

<210> 166

<211> 31

10078090-024402

<212> PRT

<213> Homo sapien

<400> 166

Met	Trp	Leu	Val	Phe	Pro	Leu	Tyr	Ile	Lys	Met	Leu	Leu	Ser	Gly	Ile
1				5					10					15	

Ala	Gln	Asp	Pro	Gln	Thr	Asn	Arg	Asp	Tyr	Leu	Pro	Arg	Thr	Lys
			20					25					30	

<210> 167

<211> 74

<212> PRT

<213> Homo sapien

<400> 167

Met	Ser	His	Thr	Pro	Val	Thr	Tyr	Pro	Ala	Arg	Gly	Ser	Gly	Asn	Ser
1				5				10						15	

Pro	Ile	Ser	Ala	Cys	Val	Ile	Phe	Gln	Trp	Trp	Cys	Ser	Glu	Val	Cys
			20					25					30		

Leu	Pro	Met	Ala	Ser	Gln	Pro	Val	Ala	Gly	Val	Leu	Trp	Met	Gly	Leu
		35					40					45			

Pro	Ser	Met	Val	Pro	Leu	Leu	Ser	Gln	Glu	Thr	Gly	Glu	Asn	Glu	Ala
	50					55					60				

Phe	Ser	Arg	Val	Phe	Glu	Val	Ala	Asn	Ala
65					70				

<210> 168

<211> 229

<212> PRT

<213> Homo sapien

<400> 168

Met	Ser	Leu	Leu	Cys	Leu	Leu	Leu	Ser	Phe	Leu	Leu	Phe	Tyr	Phe	Ser
1				5					10					15	

Ala	Leu	Val	Phe	Ser	Tyr	Ala	Ser	Leu	Phe	Pro	Leu	Val	Ala	Ser	Cys
			20					25					30		

Cys	Ser	Val	Leu	Phe	Val	Phe	Met	Arg	Ser	Gly	Gly	Leu	Cys	His	Val
		35					40					45			

Cys	Gly	Leu	Ala	Leu	Phe	Val	Cys	Phe	Leu	Leu	Val	Gly	Leu	Leu	Arg
	50						55				60				

20240909-094402

88

Leu Arg Ser Pro Leu Tyr Thr Pro Leu Ser Val Ala Phe Arg His Ser
65 70 75 80

Arg Arg Val Ser Phe Cys Cys Ala Phe Arg Val Ser Val Val Val Ser
85 90 95

Leu Arg His Val Val Cys Val Arg Cys Val Ser Phe Met Val Leu Phe
100 105 110

Ser Phe Ser Ser Leu Phe Ala Val Leu Leu Phe Val Arg Ser Phe Ser
115 120 125

Leu Trp Phe Ala Phe Cys Ser Leu Val Pro Phe Leu Cys Ala Leu Val
130 135 140

His Val Leu Phe Phe Arg Leu Leu Phe Leu Ser Ser Phe Val Val Leu
145 150 155 160

Leu Ile Met Leu Phe Phe Val Leu Leu Phe Leu Thr Leu Leu Ser Cys
165 170 175

Phe Ser Leu Ser Arg Pro Phe Cys Ser Phe Leu Cys Leu Tyr Ala Ser
180 185 190

Met Ser Val Cys Leu Gly Arg Ala Arg Gly Cys Val Ile Ala Gly Ser
195 200 205

Gly Arg Leu Leu Ala Ile Tyr Arg Leu Met Arg Cys Leu Val Ser Pro
210 215 220

Cys Leu Leu Leu Ala
225

<210> 169
<211> 34
<212> PRT
<213> Homo sapien

<400> 169

Met Leu Gly Phe Leu Ala His Phe Gln Arg Phe Ala Arg Lys Lys Val
1 5 10 15

Pro Lys His Gln Leu Ile Ser Ser Ser Leu His Val Gly His Gly Asn
20 25 30

Ile Ser

20250306 06:30:00

<210> 170
 <211> 51
 <212> PRT
 <213> Homo sapien

<400> 170

Met Gly Met Gly Ala Gly Lys Pro Phe His Thr Arg Thr Ser Cys Arg
 1 5 10 15

Pro Trp Leu Pro Pro His Leu Phe Phe Phe Phe Phe Ser Glu Val
 20 25 30

Asn Leu Asp Leu Cys Leu Phe Thr Pro His Tyr Val Lys Thr Gly Ala
 35 40 45

Ser Phe Leu
 50

<210> 171
 <211> 46
 <212> PRT
 <213> Homo sapien

<400> 171

Met Cys Pro Cys Lys Arg Val Phe Ala Asp Thr Thr Ser Phe Ile Thr
 1 5 10 15

Gln Gly Pro Gln Phe Ile Pro Phe Pro Gln Glu Val Pro Pro Pro Leu
 20 25 30

Ser Glu Gly Lys Asn Phe Pro Ala Val Asn Tyr Arg Ala Tyr
 35 40 45

<210> 172
 <211> 45
 <212> PRT
 <213> Homo sapien

<400> 172

Met Ala Val Ala Phe Gln Ser Leu Ile Pro Trp Gly Leu Gln Leu Cys
 1 5 10 15

Val Asn Lys Val Ala Ala Asp Glu Leu Val Leu Thr Arg Lys Met Lys
 20 25 30

Ala Lys Tyr Ala Ser Ile Ser Ser Arg Gln His Thr Asp
 35 40 45

<210> 173
 <211> 59

<212> PRT

<213> Homo sapien

<400> 173

Met Met Lys Leu Arg Trp Arg Ile Leu Lys Pro Gly Ala Glu Val Thr
 1 5 10 15

Met Lys Arg Asn Val Gln Leu His Ser Ser Leu Gly Thr Glu Glu Asp
 20 25 30

Leu His Arg Lys Lys Lys Lys Lys Lys Lys Ser Leu Val His Gly Ile
 35 40 45

Cys Pro Cys Val Asn Val Ser Arg Gln Ser Gln
 50 55

<210> 174

<211> 59

<212> PRT

<213> Homo sapien

<400> 174

Met Lys Ile Gly Pro Met Phe Thr Trp Val Glu Thr Tyr Ile Thr His
 1 5 10 15

Leu Gln Leu Gly Pro Leu Cys Gln Thr Ser Phe Gln Thr Gln Arg His
 20 25 30

Ala Gly Ala Ser Ser Leu Ser Ile Asn Gly Ser Ala Val Gly Met Ser
 35 40 45

Ala Val Gly Gly Leu Leu Leu Gly Glu Ser His
 50 55

<210> 175

<211> 74

<212> PRT

<213> Homo sapien

<400> 175

Met Phe Thr Ile His Arg Val Arg Ile Pro His Lys Ile Phe Arg Arg
 1 5 10 15

Pro His Ile Leu Ile Gly Ser Val Pro Ile Pro Ser Leu Phe Arg Gly
 20 25 30

Pro Lys Leu Phe Phe Thr Ser Ser Ser Ala Ile Met Gly Asn Pro Phe
 35 40 45

0078090-03402

Val Val Tyr Thr His Lys Arg Val Gly Arg Trp Asn Lys Pro Leu Tyr
 50 55 60

Val Met Leu Leu Met Lys Val Ile Ser Leu
 65 70

<210> 176
 <211> 73
 <212> PRT
 <213> Homo sapien

<400> 176

Met Gln Ser Gln Leu His Ser Tyr Phe Phe Glu Arg Arg Ala Arg Phe
 1 5 10 15

His Thr Leu Cys Ala Arg Asn Ile Asn Ile Ser Ser Ser Leu Gln Glu
 20 25 30

Glu Val Pro Thr Ile Leu Val Met Pro His Ser Lys Lys Thr Ile Phe
 35 40 45

Val Glu Lys Leu Phe Phe Gly Ala Thr Ala Phe Ala Leu Lys Asn Cys
 50 55 60

Cys Leu Phe Thr Pro Pro Thr Tyr Phe
 65 70

<210> 177
 <211> 129
 <212> PRT
 <213> Homo sapien

<400> 177

Met Ala Val Ser Val Ser Leu Cys Ser Ser Pro Arg Cys Leu Ser Leu
 1 5 10 15

Leu Phe Val Ala Ser Ala Arg Ala Thr Arg Pro Leu Leu Val Leu Ser
 20 25 30

Val Val His Ser Arg Ser Trp Leu Val Leu Ser Cys Ala Phe Leu Ser
 35 40 45

Ser Gly Ser Cys Pro Arg Arg Leu Leu Val Ser Cys Tyr Arg Val Gly
 50 55 60

Cys Val Ser Pro Ser Gly Ala Ser Phe Ser Ser Ser Ala Ser Ser Ser
 65 70 75 80

Ala Pro Phe Cys Trp Val Gly His Phe Cys Pro Arg Gly Asp Ser Arg

10078090 06082001

92

85

90

95

Val Ile Pro Gly Glu Ser Thr Met Gly Met Arg His Thr Thr Cys Tyr
100 105 110

Arg Arg Thr His Gly Arg Trp Phe Val Gly Cys Phe Val Val Val Cys
115 120 125

Phe

<210> 178
<211> 52
<212> PRT
<213> Homo sapien

<400> 178

Met Leu Gly Ile Val Gly Pro Gly Thr His Phe Thr Pro Gly Asp Tyr
1 5 10 15

Arg Phe Gly Ala Leu Gly Val Ala Pro Ser Arg Phe Arg Cys Val Tyr
20 25 30

Glu Cys Val Ser Ser Lys Arg Lys Lys Gly Thr Leu Asn Asn Pro Leu
35 40 45

Gly His Ser Gly
50

<210> 179
<211> 90
<212> PRT
<213> Homo sapien

<400> 179

Met Met Phe Tyr Thr Gln Thr Pro Val Phe Val Pro Phe Val Pro Pro
1 5 10 15

Asn Asn Ile Cys Pro Leu Ile Met Asn Tyr Tyr Thr Gln Ser Ala Ile
20 25 30

Pro Gly Val Tyr Thr Pro Tyr Leu Arg Tyr Lys Phe Ser Pro Lys Ile
35 40 45

Val Lys Lys Lys Lys Pro Pro Phe Leu Asn Asn Lys Thr Phe Val Pro
50 55 60

Trp Asn Lys Arg Lys Phe Leu Pro Leu Pro Lys Lys Lys Lys Lys Lys
65 70 75 80

10078090-034402

Lys Lys Gly Gly Gly Thr Cys Pro Ala Ala
85 90

<210> 180
<211> 142
<212> PRT
<213> Homo sapien

<400> 180

Met Ser Met Ser Cys Gly Ala Gly Ala Pro Leu Arg Val Cys Val Ser
1 5 10 15

Trp Trp Leu Trp Val Gly Gly Arg Val Gly Ala Val Val Arg Pro Arg
20 25 30

Ala Leu Trp Ser Ala Trp Gly Ala Val Gly Gly Gly Leu Leu Cys Val
35 40 45

Val Ala Leu Phe Trp Leu Cys Ala Gly Arg Arg Gly Ala Arg Leu Pro
50 55 60

Pro Ser Pro Cys Gly Ala Val Ala Val Ala Val Asp Ala Gly Ala
65 70 75 80

Ala Gly Gly Val Val Arg Gly Gly Gly Val Val Val Val Gly Arg Trp
85 90 95

Leu Gly Arg Leu Gly Trp Val Val Gly Arg Val Cys Ala Arg Gly Pro
100 105 110

Cys Leu Cys Arg Gly Gly Ala Trp Ala Gly Ala Ala Gly Arg Gly Gly
115 120 125

Gly Gly Arg Arg Gly Arg Arg Gly Arg Ala Arg Gly Pro Gly
130 135 140

<210> 181
<211> 80
<212> PRT
<213> Homo sapien

<400> 181

Met Ser Arg Arg Gly Pro Pro Pro Phe Phe Phe Phe Phe Phe Phe
1 5 10 15

Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe
20 25 30

Phe Phe Phe Phe Phe Lys Lys Lys Lys Lys Leu Leu Phe Ile Lys Lys
 35 40 45

Gly Gly Gly Gly Ala Arg Gly Gly Gly Gly Arg Ala Pro Gly Gly Gly
 50 55 60

Gly Gly Gly Glu Lys Thr Thr Lys Lys Arg Arg Thr Thr Ser Gly Pro
 65 70 75 80

<210> 182

<211> 72

<212> PRT

<213> Homo sapien

<400> 182

Met Leu Glu Arg Arg Ser Val Met Asp Glu Arg Arg Pro Gly Arg Phe
 1 5 10 15

Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Leu Glu
 20 25 30

Lys Lys Phe Phe Lys Asn Pro Gln Lys Phe Pro Gly Gln Gly Gly Leu
 35 40 45

Pro Pro Gly Lys Lys Lys Lys Lys Lys Lys Ile Trp Ala Leu Trp Gly
 50 55 60

Leu Pro Leu Ser Leu Val Gly Gly
 65 70

<210> 183

<211> 95

<212> PRT

<213> Homo sapien

<400> 183

Met Arg Pro Pro Lys Phe Tyr Ser Leu Leu Asn Val Ser Pro His Ser
 1 5 10 15

Arg Ala Leu Ser Ile Ala Pro Ser Thr Lys Lys Thr Ser Asn Arg Gly
 20 25 30

Glu Asp Val Arg Arg Gly Glu Val Pro Pro Arg Ala His Ser Arg Cys
 35 40 45

Lys His Cys Thr Thr Thr Pro His Pro Phe Gly Leu Cys Thr Thr Phe
 50 55 60

95

Ser Thr Gly Gly Thr Thr Thr Phe Cys Arg Ser Ser Gln Thr Leu Ser
65 70 75 80

Cys Leu Pro Ser Thr Pro Leu Leu Leu Pro Trp Val Leu Leu Cys
85 90 95

<210> 184
<211> 17
<212> PRT
<213> Homo sapien

<400> 184

Met Gly Glu Asp Lys Gln Asp Leu Phe Ala Phe Ala Ala Leu Ile Phe
1 5 10 15

Leu

<210> 185
<211> 71
<212> PRT
<213> Homo sapien

<400> 185

Met Ala Ala Asp Pro Ala Ser Ala Gln Gly Asp Ser Gly Thr Gly Tyr
1 5 10 15

Val Ser Cys Leu Leu Ser Ile Phe Ala Gly Cys Ala Leu Gln Trp Cys
20 25 30

Ala Leu Leu Leu Leu Leu Cys Leu Phe Phe Leu Arg Leu Phe Phe Gly
35 40 45

Ile Leu Trp Arg Val Thr Pro Val Pro Thr Gly Thr Pro Phe Ala Pro
50 55 60

Glu Ile Met Pro Pro Thr Phe
65 70

<210> 186
<211> 59
<212> PRT
<213> Homo sapien

<400> 186

Met Ala Leu Ser Leu Ala Ala Trp Thr Leu Leu Glu Glu Cys Val Ser
1 5 10 15

Ser Arg Cys Leu Pro Thr Val Met Gly Gly Ser Leu Phe Ile Gly Leu
20 25 30

20170909-091403

Leu Leu Cys Leu Leu Ala Ser Met Phe Gly His Val Val Ser Pro Ser
 35 40 45

Trp Phe His Thr Tyr Trp Asn Leu Val Tyr Pro
 50 55

<210> 187
 <211> 80
 <212> PRT
 <213> Homo sapien

<400> 187

Pro Arg Lys Ala Leu Phe Thr Tyr Pro Lys Gly Ala Ala Glu Met Leu
 1 5 10 15

Glu Asp Gly Ser Glu Arg Phe Leu Cys Glu Ser Val Phe Ser Tyr Gln
 20 25 30

Val Ala Ser Thr Leu Lys Ala Val Lys His Asp Gln Gln Val Ala Arg
 35 40 45

Met Glu Lys Leu Ala Gly Leu Val Glu Glu Leu Glu Ala Asp Glu Trp
 50 55 60

Arg Phe Lys Pro Ile Glu Gln Leu Leu Gly Phe Thr Pro Ser Ser Gly
 65 70 75 80

<210> 188
 <211> 105
 <212> PRT
 <213> Homo sapien

<400> 188

Met Arg Thr Met Met Thr Cys Asp Lys Ile His His Val Ser Ile Ser
 1 5 10 15

Gln Ser Leu Gln Ile Gln Ser His Asn Glu Pro Leu Met Gln Gln Ser
 20 25 30

His Pro His Ser Leu Ile Ser Leu Gly Asn Ile Thr Ala Tyr Thr Met
 35 40 45

Asn Asn Pro Leu Arg Tyr Ala Asp Ser Ser His His Ser Val Glu Asn
 50 55 60

Ser Ile Leu Leu Thr Val Arg Pro Thr Val Leu Phe Pro Arg Ala Ser
 65 70 75 80

20478090-031402

Val Glu Leu Gln Asn Arg Pro Ser Cys Asp Gln Pro Ser Gln Arg Leu
 85 90 95

Met Ser Gln Phe Val Ala Leu Asp Ser
 100 105

<210> 189
 <211> 83
 <212> PRT
 <213> Homo sapien

<400> 189

Met Cys Glu Ser Leu Ala Phe Leu Leu Leu Gln Phe Gly Tyr Phe Ala
 1 5 10 15

Leu Ile Ser Phe Val Asn Ser Ile Leu Tyr Ser Phe Asp Arg Arg Ala
 20 25 30

Tyr Cys Asn Lys Val Lys Ile Ile Ala Gln Lys Ile Leu His Ile Phe
 35 40 45

Ser Thr Asn Pro Tyr Cys Phe Leu Pro Thr Lys Asp Leu Tyr Tyr Ser
 50 55 60

Lys Cys Val Ser Thr Cys Leu Ala Leu Tyr Pro Gln Arg Lys Lys Cys
 65 70 75 80

His Leu Leu

<210> 190
 <211> 40
 <212> PRT
 <213> Homo sapien

<400> 190

Met Ile Thr Pro Leu His Ser Ser Leu Gly Lys Ser Asp Thr Gln Pro
 1 5 10 15

Lys Lys Asn Asn Lys Lys Lys Lys Lys Lys Asn Thr Trp Gly Ile Pro
 20 25 30

Trp Gly Lys Gly Cys Ser Gly Val
 35 40

<210> 191
 <211> 75
 <212> PRT
 <213> Homo sapien

20140105032001

<400> 191

Met Thr Asn Asn Thr Pro Lys Phe Phe Phe Phe Phe Phe Phe Phe Leu
1 5 10 15

Gly Glu Thr Glu Ser Leu Thr Leu Ser Pro Arg Leu Glu Cys Ser Gly
20 25 30

Glu Ile Ser Ala His Cys Asn Leu Arg Leu Leu Asp Ser Cys Asp Ser
35 40 45

Pro Val Ser Ser Phe Pro Ser Ser Trp Gly Tyr Arg Arg Gly Pro His
50 55 60

Leu Pro Gly Asp Pro Ser His Cys Ala Val Arg
65 70 75

<210> 192

<211> 67

<212> PRT

<213> Homo sapien

<400> 192

Met His Phe Cys Gln Leu Leu Arg Thr Ser Ser Leu Ile Gly Met Cys
1 5 10 15

Trp Val Leu Arg Phe Ser Tyr Phe Phe Lys Leu Cys Leu Glu Phe Lys
20 25 30

Asn Tyr Thr Ser Leu Asn Tyr Met Pro Asn Ser Trp Pro Thr Gln Met
35 40 45

Lys Val Leu Val Leu Leu Ser Val Ile Pro Gly Leu Cys Gly Asn Leu
50 55 60

Asn Thr Ser
65

<210> 193

<211> 47

<212> PRT

<213> Homo sapien

<400> 193

Met Trp Thr Gly Asn Asn Gln Ile Val His Pro Thr Gly Thr Thr Leu
1 5 10 15

Trp Pro Thr Glu Leu Pro Ala Arg Leu Phe Phe Val Phe Phe Cys Phe
20 25 30

20250909-091403

<210>	196
<211>	122
<212>	PRT

100

<213> Homo sapien

<400> 196

Met Asp Ala Ala Arg Ala Gly Lys Lys Lys Lys Lys Lys Lys Lys Lys
1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
20 25 30

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly Gly Gly Phe Val
35 40 45

Pro Ser Ser Pro Leu Phe Leu Phe Ser Ile Thr Thr Phe Pro Arg Asp
50 55 60

Arg Ala Ala Arg Gly Gly Asp Thr Leu Tyr Tyr Ile Glu Glu Gly Asp
65 70 75 80

Arg Arg Tyr Ser Ser Lys Arg Ala Glu Asn Ile Ala Lys Ile Gly Trp
85 90 95

Leu Pro Gly Glu Thr Ile Glu Val Val Ala Thr Ile Leu Glu Pro Phe
100 105 110

Ala Cys Arg Leu Val His Thr Thr Pro Gln
115 120

<210> 197

<211> 84

<212> PRT

<213> Homo sapien

<400> 197

Met Cys Leu Leu Ala Pro Cys Pro Glu Thr Pro Glu Ser Ser Trp Val
1 5 10 15

Val Lys Glu Ile Pro Trp Ser Ser Gln Val Pro Gly Ala Thr Cys Trp
20 25 30

Gly Phe Pro Gly His Arg Leu Ser Leu Lys Ala Cys Arg His Cys Ala
35 40 45

Thr Val Val Pro Val Arg Pro Ser Trp Gly His Gly Glu Arg Asp Ile
50 55 60

Ala Ile Pro Glu Ile Pro Gln Ser Val Met Cys Asp Leu Arg Ile Leu
65 70 75 80

204729-0682001

Leu Arg Thr Pro

<210> 198
 <211> 84
 <212> PRT
 <213> Homo sapien

<400> 198

Met Asn Lys Leu His Trp Gln Trp Pro Leu Ser Ser Arg Arg Arg Gln
 1 5 10 15

Leu Met Asp Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe
 20 25 30

Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Leu
 35 40 45

Gly Gly Gly Thr Gly Glu Gln Gly Gly Arg Ala Gly Gly Glu Cys Val
 50 55 60

Leu Pro Pro Pro Pro Pro Gln Lys Lys Lys Lys Lys Asn Ser Ile Asn
 65 70 75 80

Lys Lys Lys Lys

<210> 199
 <211> 134
 <212> PRT
 <213> Homo sapien

<400> 199

Met Pro Leu His Ser Ser Leu Gly Asn Arg Val Arg Pro Cys Pro Ser
 1 5 10 15

Thr Leu Gly Gly Arg Gly Ala Gln Leu Glu Ile Ser Leu Gly Asn Ile
 20 25 30

Val Lys Leu Asp Leu Tyr Lys Lys Lys Lys Lys Lys Ser Arg Val
 35 40 45

Trp Trp Cys Ala Pro Val Val Pro Ala Thr Gly Lys Leu Arg Trp Glu
 50 55 60

Asp His Leu Ser Pro Gly Gly Arg Gly His Asn Glu Pro Lys Leu Cys
 65 70 75 80

Gln Leu Asp Ser Ser Leu Gly Gln Gln Arg Lys Glu Leu Phe Thr Arg

102

85

90

95

Lys Lys Lys Lys Thr Lys Lys Lys Lys Lys Gly Gly Gly Gly Asn Thr
100 105 110

Gly Ala Gln Thr Arg Gly Pro Gly Gly Gly Asn Gly Gly Thr Arg Asp
115 120 125

His Lys Phe Pro Lys Gln
130

<210> 200
<211> 34
<212> PRT
<213> Homo sapien

<400> 200

Met Tyr Pro Pro Gln Ala Leu Cys Glu Asn Ile His Glu Asp Tyr Ser
1 5 10 15

Leu Ser Phe Tyr Thr Lys Arg Thr Thr Gln Arg Arg Pro Leu Gly Gly
20 25 30

Phe Leu

<210> 201
<211> 137
<212> PRT
<213> Homo sapien

<400> 201

Met Val Gly Arg Thr Thr Phe Tyr Lys Leu Arg Glu Ser Thr Gln Arg
1 5 10 15

Ser Pro Leu Glu Arg Ala His Glu Glu Thr His Lys Ser Pro His Ala
20 25 30

Val Cys Trp Leu Arg Glu Ile Asn Arg Ala Ser Ser Leu Leu Ser Leu
35 40 45

Ser Leu Cys Val Gly Ala Arg Arg Ser Gln Thr Leu Cys Glu Lys Glu
50 55 60

Lys Val Leu Ser Glu Arg Glu Ser Val Gly Val His Thr Glu Ser Gly
65 70 75 80

Val Tyr Met Phe Tyr Ser Leu Trp Arg Val Ser Phe Ser Thr His Thr
85 90 95

304T.20"0608/00T

Gly Ala His Asp Leu Ser His Lys Glu His Arg Thr His Thr Leu Trp
 100 105 110

Arg Ala Leu Ser His Leu Ile Phe Cys Glu Asn Val Lys Thr Phe Val
 115 120 125

Glu Arg Glu Val Phe Leu Pro Val Leu
 130 135

<210> 202
 <211> 134
 <212> PRT
 <213> Homo sapien

<400> 202

Met Val Val Arg Gln Tyr Val Ser Glu Ile Phe Glu Pro Ala Pro Pro
 1 5 10 15

Ser Thr Asn Lys His Tyr Phe Lys Arg Gly Lys Gly Ile Ser Met Glu
 20 25 30

Ala His Ser Arg Arg Gln Ser His Ser Leu Thr Arg Ser Ser Asp Pro
 35 40 45

Phe Ser Leu Gln His Arg Thr Gln Leu Leu Gln His Gly Ser His His
 50 55 60

His Gly Asp Leu Gly Pro Tyr Phe Ile Pro His Arg Met Glu Glu Ser
 65 70 75 80

Arg Leu Leu Leu Ser Leu Ser Ser Arg His Ser Phe Thr Ala Thr Phe
 85 90 95

Asp Gln Leu Leu Ala Arg Gly Lys Ala Ser Ser Thr Gly Thr Ser Arg
 100 105 110

Cys Pro Gly Leu Gly Ala Gly Ala Arg Arg Pro His Trp Ala Arg Val
 115 120 125

Ser Ser Ala Ala Thr Thr
 130

<210> 203
 <211> 60
 <212> PRT
 <213> Homo sapien

<400> 203

204720-0602001

Met Ile Ile Leu Cys Leu Ile Asn His Asn Ile Met Cys Trp Trp Val
1 5 10 15

Ser Ser Ser Ser Asp Tyr Leu Ser Ile Ser Val Cys Val Val Gln Ile
20 25 30

Ser Ser Arg Gly Val Ser Pro Cys Ala Arg Asp Lys Thr Thr Ala Leu
35 40 45

Ser Leu Leu Ser Arg Ser Ser Leu Ser Tyr Leu Cys
50 55 60

<210> 204

<211> 49

<212> PRT

<213> Homo sapien

<400> 204

Met Asp Gly Thr Glu Gly Lys Gln Leu Phe Met Tyr Thr Ser Lys Arg
1 5 10 15

Gly Lys Lys Lys Lys Lys Arg Asn Pro Leu Ile Ser Thr Leu Pro Ile
20 25 30

Arg Gln Asp Ile Ser Thr Ser Gln Ile Leu Arg Phe Leu Ile Ser Arg
35 40 45

Phe

<210> 205

<211> 53

<212> PRT

<213> Homo sapien

<400> 205

Met Ser Pro Trp Leu Asn Glu Arg Ser Ile Ala Lys Tyr Leu Met Asp
1 5 10 15

Lys Val Thr Thr Ala Leu Gln Ala Asn Asn His Ile Ser Pro Tyr Ile
20 25 30

Asp Gln Gln Arg Tyr Tyr Asn Tyr Ala Ser Val Gly Ile Gln Pro Arg
35 40 45

Leu Thr His Ile Thr
50

<210> 206
 <211> 219
 <212> PRT
 <213> Homo sapien

<400> 206

Met Thr Met Asn Thr Arg Ser Tyr Leu Thr Thr Phe Gly Ser Leu His
 1 5 10 15

Ser Tyr Ser Ser Pro Gln Leu Trp Cys Asp Thr Leu Thr Leu Val Arg
 20 25 30

His Gly Ser Ser Leu Gly His Asn Thr Arg Thr Asp Pro Thr Ala Tyr
 35 40 45

Pro Ser Pro Tyr Cys Pro Tyr Leu Ala Glu His Phe Thr Leu Leu His
 50 55 60

Lys Leu Ser Ser Met Thr Pro Gly Arg Leu Asp Met Ala Met Pro Tyr
 65 70 75 80

Val Leu Ala Pro His Leu Ala Thr Pro Thr Pro Pro Ser Leu Thr Pro
 85 90 95

Leu Arg Asn Asn Thr Thr Pro Ser His His His Thr Ile Thr Tyr Leu
 100 105 110

Thr Thr Ala Pro Tyr His Arg Thr Leu Leu Thr Ser Pro Thr His Pro
 115 120 125

Tyr Gly Asp Asp His Leu Tyr Leu Tyr Leu Thr Leu Thr Thr Pro Phe
 130 135 140

Glu Pro Arg Pro Thr His Arg Tyr Pro Leu Pro Pro Leu Asn Pro Leu
 145 150 155 160

Arg Ile Thr Thr Gln His Thr Ser Asp Gly Thr Thr Pro Phe Arg Asn
 165 170 175

Thr His Pro Lys Leu His Pro Leu Tyr Tyr Thr Thr Gln His His Tyr
 180 185 190

Tyr Tyr Ala His His Asn Gln Pro Gln Thr Ser Thr Thr Thr Ile Lys
 195 200 205

His Ser Ala Gly Gln His Ser Glu Gln Gln Gln
 210 215

204720"05082007

<210> 207
 <211> 97
 <212> PRT
 <213> Homo sapien

<400> 207

Met His Ala Arg Ala Ala Gln Cys Asp Gly Ser Ala Ala Gly Gln Val
 1 5 10 15

Leu Pro Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Leu Arg Gly Ser
 20 25 30

Asn Leu Asp Pro Phe Phe Val Lys Lys Ile Phe Phe Phe Phe Phe Phe
 35 40 45

Phe Phe Leu Trp Lys Pro Pro Leu Glu Thr Ser Ala Ala Ala Leu Pro
 50 55 60

Val Thr Thr Cys Leu Leu Ser Arg His Ser Cys Val Ile Gln Arg Asp
 65 70 75 80

Gly Ala Pro Ala Gly Trp Lys Arg Glu Trp Pro Pro Arg Ala Gly Arg
 85 90 95

Gly

<210> 208
 <211> 261
 <212> PRT
 <213> Homo sapien

<400> 208

Met Leu Phe Cys Leu Pro Pro Arg Arg Ala Arg Val Cys Val Cys Cys
 1 5 10 15

Ile Thr Leu Gly Gly His Ser Ser Leu Tyr Gly Lys Arg Cys Val Leu
 20 25 30

Ser Leu Ala Arg Gly Arg Asp Ile Tyr Val Asn Thr Leu Ala Gly Glu
 35 40 45

His Thr His Thr His Ser Tyr Ile Thr Gln Leu Phe Phe Val Cys Lys
 50 55 60

Asn Met Phe Val Val His Leu Cys Val Cys Val Ile Trp Leu Tyr Thr
 65 70 75 80

His Leu Ser Val Tyr Ile Leu Cys Val Cys Thr Arg Ala Ile Ala His

10078090-02402

107

85

90

95

Thr Leu Tyr Cys Pro Thr Ser Val Phe Met Arg Ala Arg Glu Arg Arg
100 105 110

Gly Arg Val Arg Arg Glu Tyr Ile Ile Pro Thr Leu Cys Val Phe Ile
115 120 125

Ile Thr Gln Leu Val Arg Glu Arg Glu His His Arg Arg Ser Ala Ala
130 135 140

Val Cys Thr His Thr Arg His Thr Pro Leu Ser Leu Thr Pro Leu Leu
145 150 155 160

Ser Tyr Ile His Thr Pro Arg Cys Ser Arg Arg Glu Tyr Ile Gly Cys
165 170 175

Leu Tyr Ser Phe Thr His Phe Pro Val Gly Leu Tyr Ser His Thr Thr
180 185 190

Ser Thr Ser Leu Leu Val Ser Thr His Thr His His Lys Ile Asn Thr
195 200 205

Phe Leu Tyr Thr Pro Thr Leu Gln His Ser Leu Pro Pro His Leu Val
210 215 220

Tyr Arg His Thr His Ser Leu Leu Pro Pro Pro Ala His Pro Gln Lys
225 230 235 240

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly Gly Asp
245 250 255

Leu Arg Pro Ala Asp
260

<210> 209

<211> 111

<212> PRT

<213> Homo sapien

<400> 209

Met Arg Ser Thr His Trp Ala His Gly Thr Phe Leu Thr Pro Thr His
1 5 10 15

Pro Phe Leu Ile Ser Ser Thr Phe Leu Ser Ile Tyr Leu Pro Pro Ala
20 25 30

Pro Thr Pro Ile Pro Leu Ser Thr Thr Asn Pro Leu Ile Gln Ala Pro

204720 06052001

35

40

45

Pro Gly Pro Leu Ile Ile Lys Thr Ile Val Pro Leu Phe Leu Asn Met
 50 55 60

Asp Gln Lys Lys Lys Lys Lys Asn Lys His Leu Ala Ala Thr Thr Ile
 65 70 75 80

His His Asn Ala Pro Leu Glu His Ala Ser Arg Tyr Thr Glu Ala Pro
 85 90 95

Ile Val Ile Ile His Ser Ser Phe Phe Leu Phe Phe Phe Val Phe
 100 105 110

<210> 210

<211> 30

<212> PRT

<213> Homo sapien

<400> 210

Met Ala His Phe Ala Gln Gln Cys Ser Phe His Met Gln Leu Ile Thr
 1 5 10 15

His Asp Val Met Trp Ile Asp Thr Val Leu Thr Gln His Ile
 20 25 30

20250608 06:00:00